ESTAR INTERVENTION

Tier 2 Mathematics Intervention

Module: *Multiplication & Division Relationships (MDR)*

Teacher Display Masters

The Meadows Center
FOR PREVENTING EDUCATIONAL RISK

THE UNIVERSITY OF TEXAS AT AUSTIN

COLLEGE OF EDUCATION

Mathematics Institute for Learning Disabilities and Difficulties

www.meadowscenter.org

1–100 Chart: 2s

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

STOP
1

Use the 100s chart to show your work.

Makayla was given a sequence of numbers: 16, 20, 24, 28, 32. She knows that each number cannot be separated into groups of 3 or 5 equally. How could she prove this using the hundreds chart?

100 Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Use your hundreds chart to answer the following questions.

1.) Counting by 3s, what are the first 6 numbers? _____ , _____ , _____ ,

_____ , _____ , _____

2.) How many groups of 3 is 30? _____

3.) Write an addition expression to show 9 groups of 3.

_____

4.) What is the pattern when skip counting by 3s? _____

Use the 100s chart to show your work.

Makayla was given a sequence of numbers: 16, 20, 24, 28, 32. She knows that each number cannot be separated into groups of 3 or 5 equally. How could she prove this using the hundreds chart?

answers may vary, but would include shading in the hundreds chart to show the skip counting pattern

100 Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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Use your hundreds chart to answer the following questions.

1.) Counting by 3s, what are the first 6 numbers? __3__ , __6__ , __9__ ,

__12__ , __15__ , __18__

2.) How many groups of 3 is 30? __10__

3.) Write an addition expression to show 9 groups of 3.

3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3

4.) What is the pattern when skip counting by 3s? odd, even, odd, even
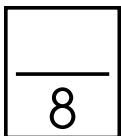
Use your 100 charts to continue the pattern.

1.) 90 , 100 , _____ , _____

What did you skip count by? _____

2.) 42, 44, _____ , 48, _____

What did you skip count by? _____

3.) Starting at 5, skip count by 5s, what are the first 6 numbers? _____ ,

_____ , _____ , _____ , _____ , _____

4.) Write an addition expression to show 4 groups of 3.

_____

5.) How many groups of 5 is 45? _____

6.) Is the 7th group of 5 even or odd? _____

7.) What does 8 groups of 2 equal? _____

8.) We were skip counting by 3s and stopped shading at 39. Circle the letter of the number that would be shaded next.

A 40

B 42

C 36

D 41

STOP

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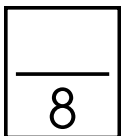
Use your 100 charts to continue the pattern.

1.) 90 , 100 , __110__ , __120__

What did you skip count by? __10__

2.) 42, 44, __46__ , 48, __50__

What did you skip count by? __2__

3.) Starting at 5, skip count by 5s, what are the first 6 numbers? __5__ ,

__10__ , __15__ , __20__ , __25__ , __30__

4.) Write an addition expression to show 4 groups of 3.

__3 + 3 + 3 + 3__

5.) How many groups of 5 is 45? __9__

6.) Is the 7th group of 5 even or odd? __odd__

7.) What does 8 groups of 2 equal? __16__

8.) We were skip counting by 3s and stopped shading at 39. Circle the letter of the number that would be shaded next.

   A 40
   B 42
   C 36
   D 41

Equal groups

Materials needed:
   1. 1 number cube

Directions:
   1. Roll the number cube to find the number of equal groups.

   2. Draw a picture for the equal groups.

   3. Roll the number cube to find the number in each group.

   4. Draw a picture for the number in each group.

   5. Complete the equal-groups sentence.

   6. Write a repeated addition equation.

1.) _____ groups of _____ equals _____.

      repeated addition: _____

2.) _____ groups of _____ equals _____.

      repeated addition: _____

3**.)** _____ groups of _____ equals _____.

repeated addition: _____

Helen had 10 beads. She put them in equal groups to make bracelets. She had 2 groups of 3 and 1 group of 4. Does Helen have all the beads in equal groups?

1.) What is the question asking you to find? _____

2.) Model Helen's groups.

3.) Are these in equal-groups? _____

4.) Draw 10 beads in equal groups.

5.) _____ groups of _____ equals _____

Write the repeated addition equation for the equal-groups model or the equal-groups sentence.

6.) _____

7.) _____

**8.)** 3 groups of 8 equals 24. _____

Draw an equal groups model for each of the following.

7.) 6 groups of 3 equals 18.

8.) 4 + 4 + 4 + 4 + 4 = 20

9.) 4 groups of 3 = 2 groups of 6

Equal groups

Materials needed:

    1. 1 number cube

Directions:

    1. Roll the number cube to find the number of equal groups.

    2. Draw a picture for the equal groups.

    3. Roll the number cube to find the number in each group.

    4. Draw a picture for the number in each group.

    5. Complete the equal-groups sentence.

    6. Write a repeated addition equation.

1.) ____ groups of ____ equals _____.

answers may vary

    repeated addition: _____

2.) ____ groups of ____ equals _____.

    repeated addition: _____

3**.)** _____ groups of _____ equals _____.

repeated addition: _____

Helen had 10 beads. She put them in equal groups to make bracelets. She had 2 groups of 3 and 1 group of 4. Does Helen have all the beads in equal groups?

1.) What is the question asking you to find? _____ **Equal groups** _____

2.) Model Helen's groups.

3.) Are these in equal-groups? _____ **No** _____

4.) Draw 10 beads in equal groups.
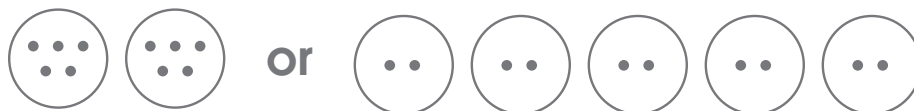
5.) __2__ groups of __5__ equals ___10___ **or 5 groups of 2 equals 10**

Write the repeated addition equation for the equal-groups model or the equal-groups sentence.

6.) _____ 7 + 7 = 14 _____

7.) _____ 2 + 2 + 2 + 2 + 2 = 10 _____

8.) 3 groups of 8 equals 24. _____ 8 + 8 + 8 = 24 _____

Draw an equal groups model for each of the following.

7.) 6 groups of 3 equals 18.

8.) 4 + 4 + 4 + 4 + 4 = 20

9.) 4 groups of 3 = 2 groups of 6

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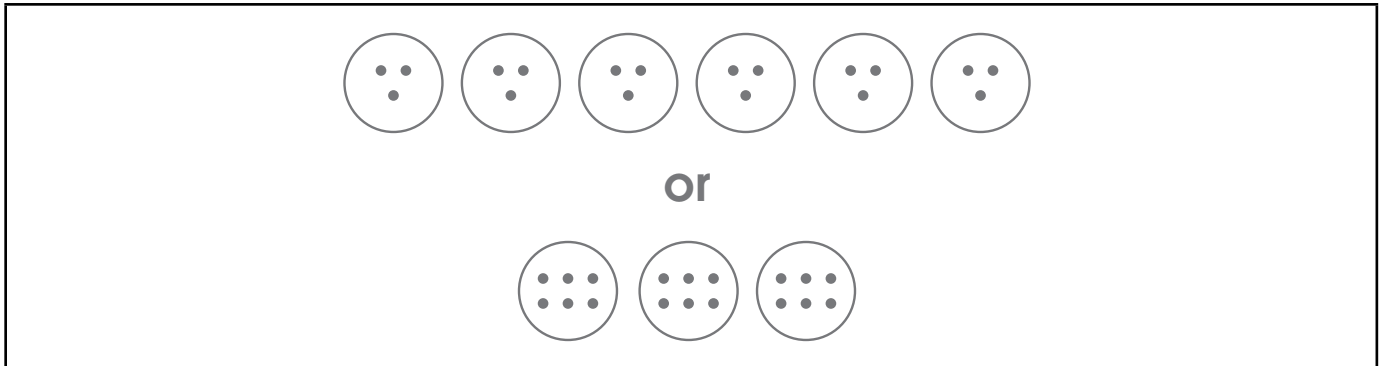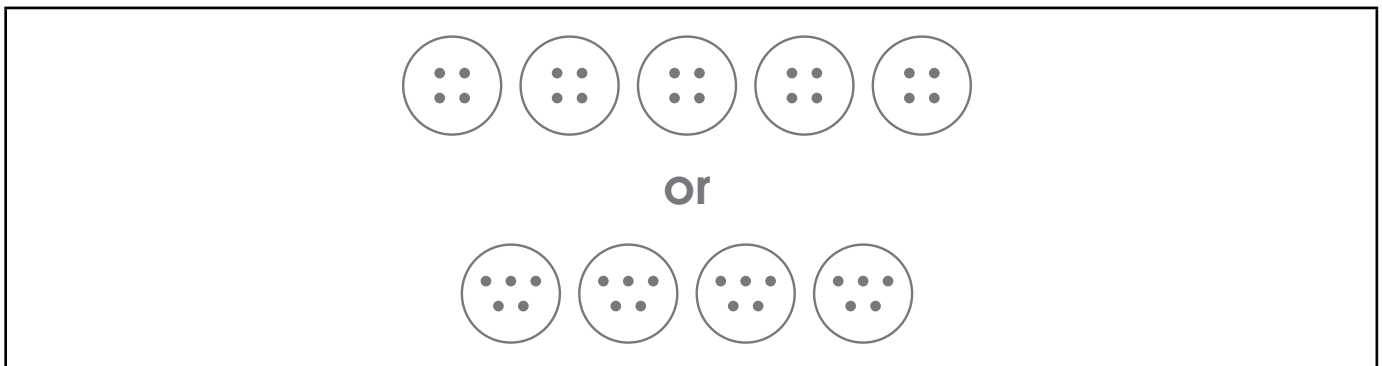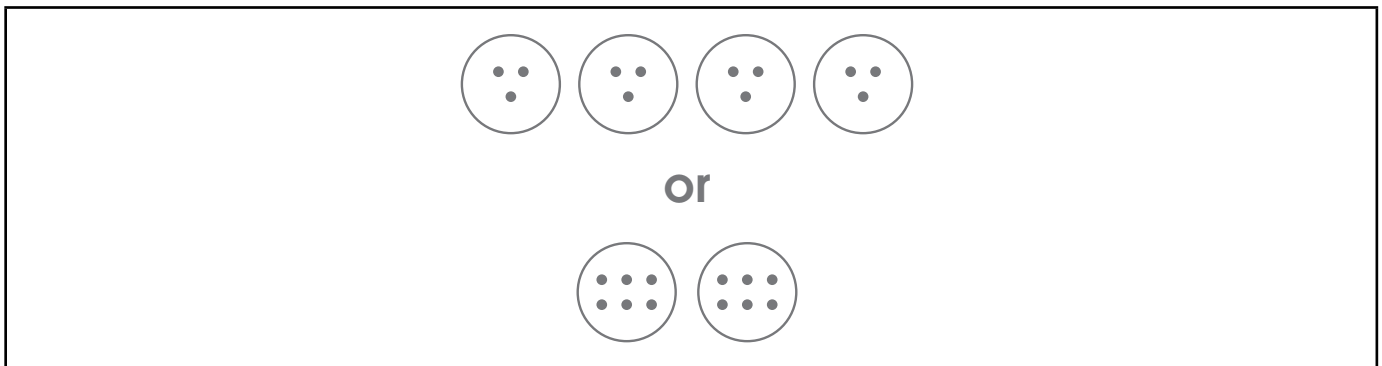
1.) Skip count by 2s to continue the pattern. 112, 114, _____ , 118, _____

2.) Skip count by 5s to continue the pattern. 235, _____ , 245, 250, _____

Complete the equal groups sentence for the equal groups model.

3.) ____ groups of ____ equals _____.

Write the repeated addition equation for the equal-groups model or the equal groups sentence.

4.) _____

5.) 5 groups of 9 equals 45. _____
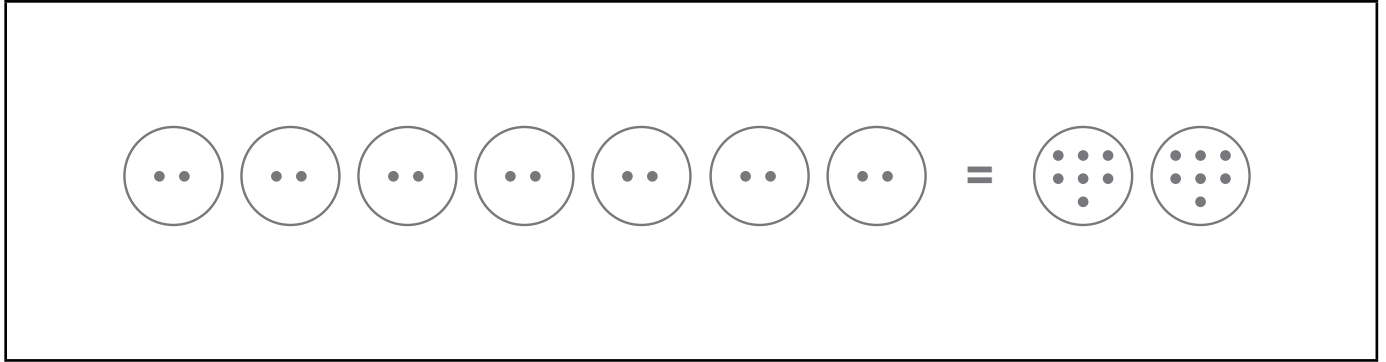
Draw an equal groups model.

6.) 4 groups of 8 equals 32.

Draw an equal groups model.

7.) 2 + 2 + 2 + 2 + 2 + 2 + 2 = 7 + 7

8.) Sally has 6 buttons to sew on her sweater. Each button has 4 holes. Draw an equal groups model for Sally's 6 buttons with 4 holes each.

9.) How many button holes are there altogether on the 6 buttons? _____

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1.) Skip count by 2s to continue the pattern. 112, 114, __116__ , 118, __120__

2.) Skip count by 5s to continue the pattern. 235, __240__ , 245, 250, __255__

Complete the equal groups sentence for the equal groups model.

3.) __3__ groups of __7__ equals __21__ .

Write the repeated addition equation for the equal-groups model or the equal groups sentence.

4.) _____ 4 + 4 + 4 + 4 = 16 _____

5.) 5 groups of 9 equals 45. _____ 9 + 9 + 9 + 9 + 9 = 45 _____

Draw an equal groups model.
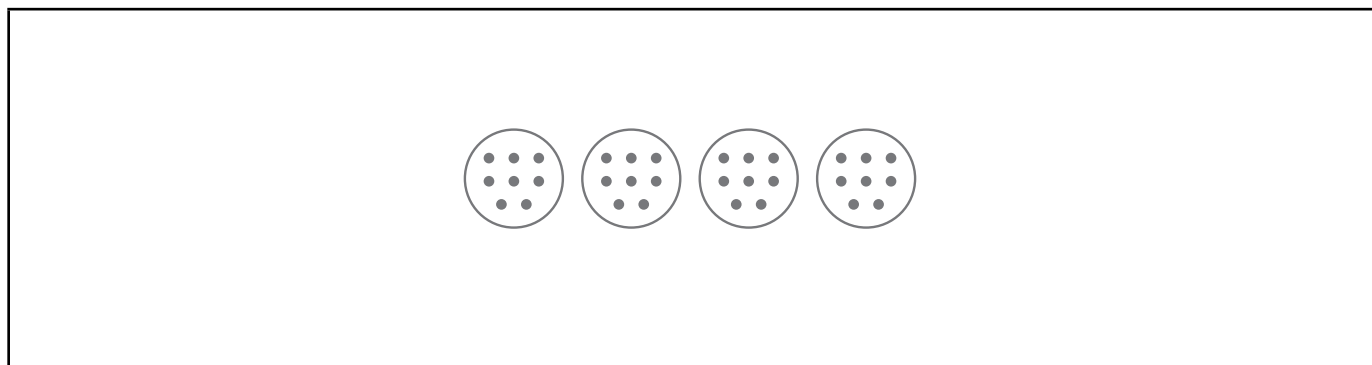
6.) 4 groups of 8 equals 32.

Draw an equal groups model.

7.) 2 + 2 + 2 + 2 + 2 + 2 + 2 = 7 + 7

8.) Sally has 6 buttons to sew on her sweater. Each button has 4 holes. Draw an equal groups model for Sally's 6 buttons with 4 holes each.
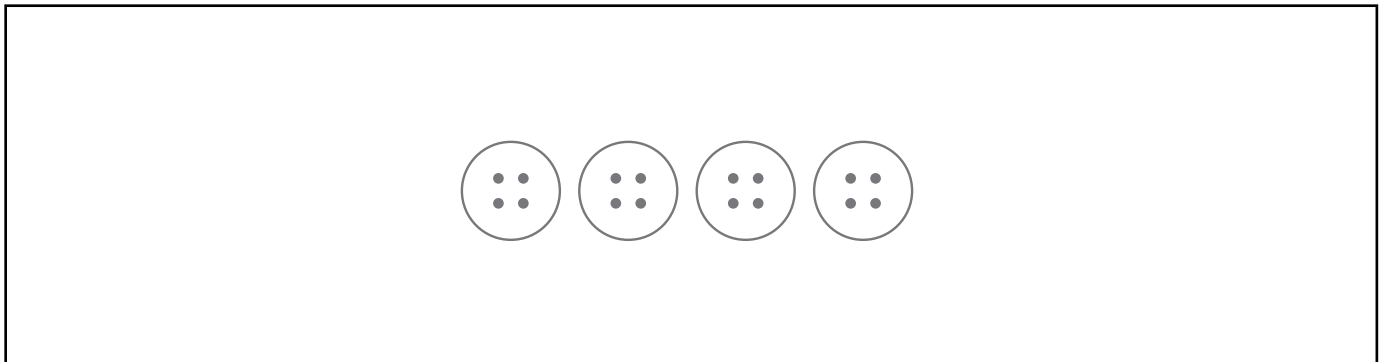
9.) How many button holes are there altogether on the 6 buttons? ___24___

Julian sees 4 baskets with 3 apples in each basket. He writes the multiplication expression 4 × 4 × 4 to find the total number of apples in all 4 baskets. Is his multiplication expression correct? Why?

Julian sees 4 baskets with 3 apples in each basket. He writes the multiplication expression 4 × 4 × 4 to find the total number of apples in all 4 baskets. Is his multiplication expression correct? Why?
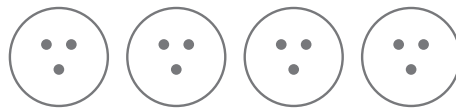
4 groups of 3

3 + 3 + 3 + 3

4 × 3

No, his multiplication expression is wrong. He wrote the repeated addition equation.

Write a repeated addition equation and a multiplication equation for each equal groups model.

1.)

Model 1 = Model 2

Addition:

_____ = _____

Multiplication:

_____ = _____

2.)

Model 1 = Model 2

Addition:

_____ = _____

Multiplication:

_____ = _____

3.)
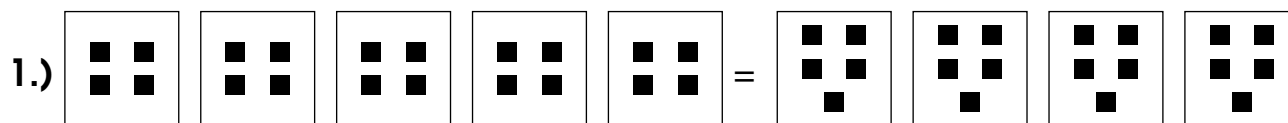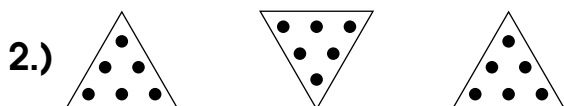
Model 1 = Model 2

Addition:

_____ = _____

Multiplication:

_____ = _____

Write a repeated addition equation for each equal-groups sentence.

1.) 3 groups of 6 equals 18. _____

2.) 5 groups of 7 equals 35. _____

Write a multiplication equation for each equal-groups sentence.

3.) 7 groups of 3 equals 21. _____

4.) 8 groups of 4 equals 32. _____

Write a multiplication equation for each repeated addition equation.

5.) 3 + 3 + 3 + 3 + 3 = 15 _____

6.) 6 + 6 + 6 + 6 = 24 _____

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Write a repeated addition equation and a multiplication equation for each equal groups model.

1.)
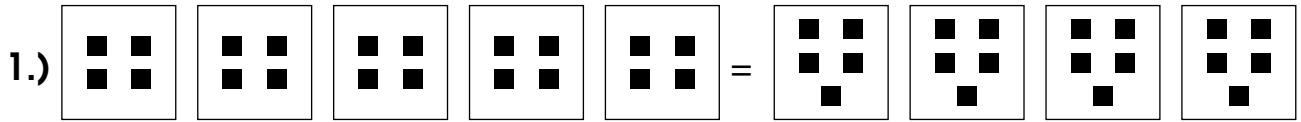
Model 1 = Model 2

Addition:

$$\underline{\text{4 + 4 + 4 + 4 + 4}} = \underline{\text{5 + 5 + 5 + 5}}$$

Multiplication:

$$\underline{\text{4 × 5}} = \underline{\text{5 × 4}}$$

2.)
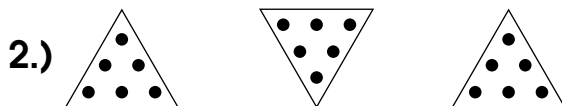
Model 1 = Model 2

Addition:

$$\underline{\text{6 + 6 + 6}} = \underline{\text{3 + 3 + 3 + 3 + 3 + 3}}$$

Multiplication:

$$\underline{\text{6 × 3}} = \underline{\text{3 × 6}}$$

3.)

Model 1 = Model 2

Addition:

5 + 5 + 5 + 5 + 5 + 5 + 5 = 7 + 7 + 7 + 7 + 7

Multiplication:

5 × 7 = 7 × 5

Write a repeated addition equation for each equal-groups sentence.

1.) 3 groups of 6 equals 18. _____ $6 + 6 + 6 = 18$ _____

2.) 5 groups of 7 equals 35. _____ $7 + 7 + 7 + 7 + 7 = 35$ _____

Write a multiplication equation for each equal-groups sentence.

3.) 7 groups of 3 equals 21. _____ $7 \times 3 = 21$ _____

4.) 8 groups of 4 equals 32. _____ $8 \times 4 = 32$ _____

Write a multiplication equation for each repeated addition equation.

5.) $3 + 3 + 3 + 3 + 3 = 15$ _____ $3 \times 5 = 15$ _____

6.) $6 + 6 + 6 + 6 = 24$ _____ $6 \times 4 = 24$ _____
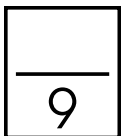
9

1.) Draw an equal groups model for 6 groups of 8.

2.) Draw an equal groups model for 4 + 4 + 4.

Write a repeated addition equation and a multiplication equation for each equal-groups model.

3 groups of 2 equals 6.

3.) _____
addition

4.) _____
multiplication

4 groups of 9 equals 36.

5.) _____
addition

6.) _____
multiplication

Write a multiplication equation for each repeated addition equation.

7.) 8 + 8 + 8 = 24 _____

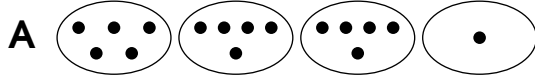**8.)** 10 + 10 + 10 + 10 + 10 = 50 _____

9.) Kyle separated 16 apples into baskets and told the teacher they were in equal groups. Circle the answer that shows the apples in equal groups.
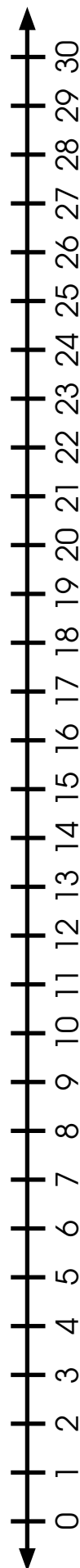
A ⬭⬭⬭⬭

B ⬭⬭⬭⬭

C ⬭⬭⬭⬭

D ⬭⬭⬭⬭

9
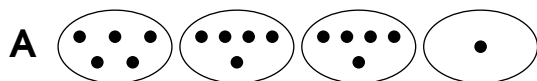
1.) Draw an equal groups model for 6 groups of 8.
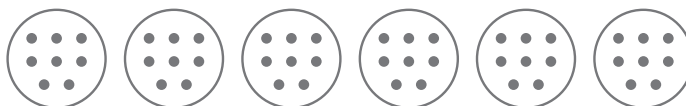
2.) Draw an equal groups model for 4 + 4 + 4.

Write a repeated addition equation and a multiplication equation for each equal-groups model.

3 groups of 2 equals 6.

3.) _____ **2 + 2 + 2 = 6** _____
addition

4.) _____ **3 x 2 = 6 or 2 x 3 = 6** _____
multiplication

4 groups of 9 equals 36.

5.) _____ **9 + 9 + 9 + 9 = 36** _____
addition

6.) _____ **4 x 9 = 36 or 9 x 4 = 36** _____
multiplication

Write a multiplication equation for each repeated addition equation.

7.) 8 + 8 + 8 = 24 _____ **8 x 3 = 24 or 3 x 8 = 24** _____

8.) 10 + 10 + 10 + 10 + 10 = 50 _____ **10 x 5 = 50 or 5 x 10 = 50** _____

9.) Kyle separated 16 apples into baskets and told the teacher they were in equal groups. Circle the answer that shows the apples in equal groups.

A

B

Ⓒ

D

$4 \times 6 =$ _____

_____ groups of _____ equals _____

Draw the equal-groups.

Use the number line to solve.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
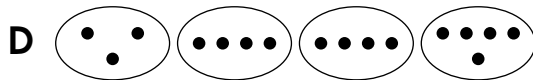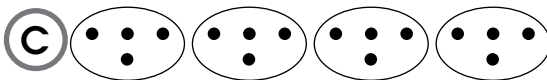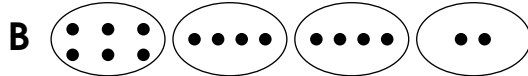
STOP

$4 \times 6 =$ __24__

__4__ groups of __6__ equals __24__

Draw the equal-groups.
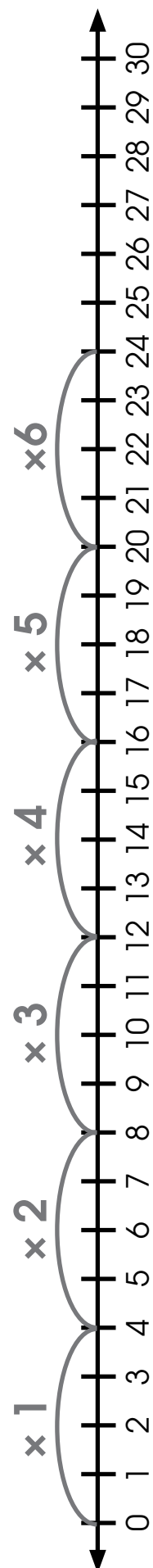
Use the number line to solve.

×1 ×2 ×3 ×4 ×5 ×6
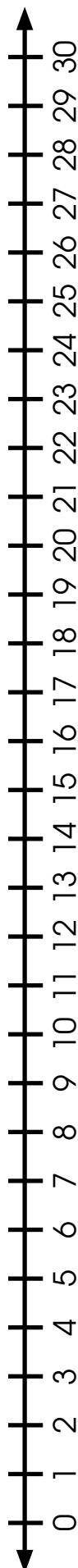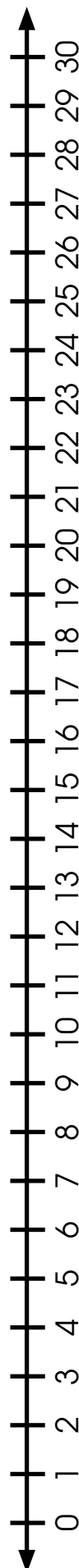
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

STOP

1.) 2 × 10 = _____

_____ groups of _____ equals _____

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0  1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
```

2.) 7 × 4 = _____

_____ groups of _____ equals _____

```
0  1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
```

Fill in the boxes and solve the multiplication problem using the number line.

1.) [ ]　　× 2　　[ ]　　× 4　　[ ]

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

[ ]

5 × 6 = [ ]

[ ] groups of [ ] equals [ ]

2.) × 1　[ ]　× 3　× 4　× 5　[ ][ ]　× 8

0 1 2 3 4 5 6 7 8　10 11 12 13 14 15 16 17　19 20 21 22 23　25 26 27 28 29 30

[ ]　　[ ]　　[ ]
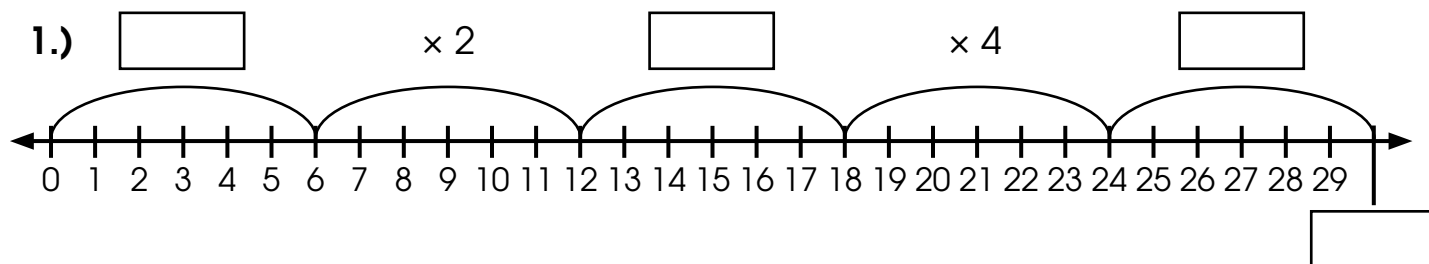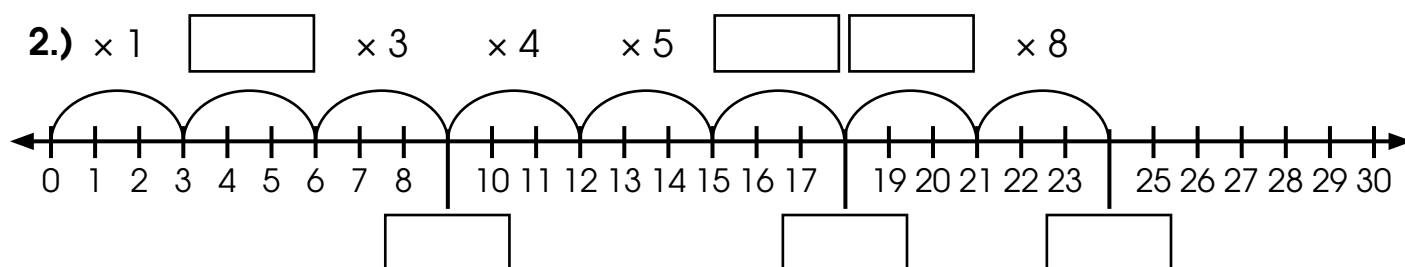
8 × 3 = [ ]

[ ] groups of [ ] equals [ ]

3.) Jackson is asked to bag up cookies at the bakery where he works. He is told to put 3 cookies in each bag. He has been given 7 bags to fill. How many cookies will Jackson need to fill all 7 bags?

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   0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
```

_____ groups of _____ equals _____

_____ × _____ = _____

1.) 2 × 10 = __20__

__2__ groups of __10__ equals __20__

×1   ×2

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

2.) 7 × 4 = __28__

__7__ groups of __4__ equals __28__

×1   ×2   ×3   ×4   ×5   ×6   ×7

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Fill in the boxes and solve the multiplication problem using the number line.

1.) × 1   × 2   × 3   × 4   × 5

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

30
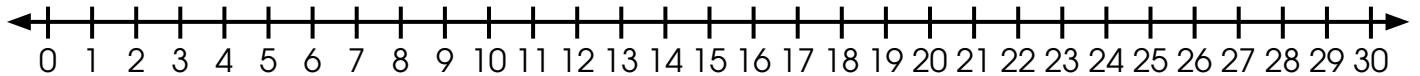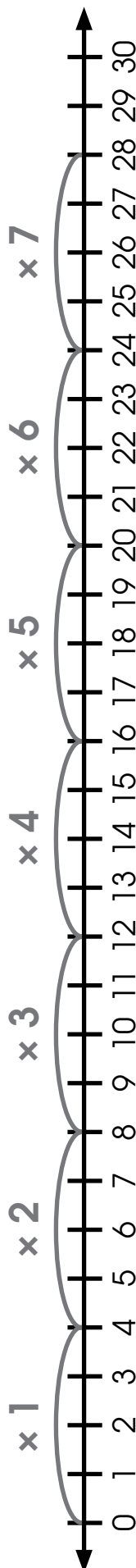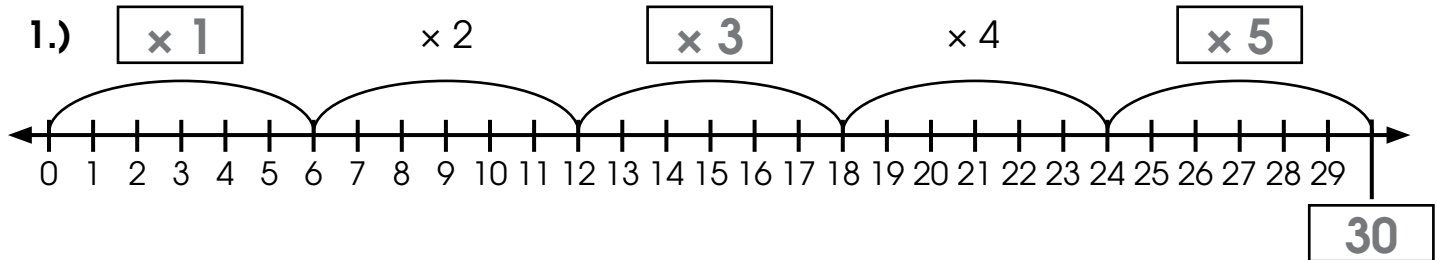
5 × 6 = 30

5 groups of 6 equals 30

2.) × 1 × 2 × 3 × 4 × 5 × 6 × 7 × 8

0 1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17 19 20 21 22 23 25 26 27 28 29 30

9   18   24
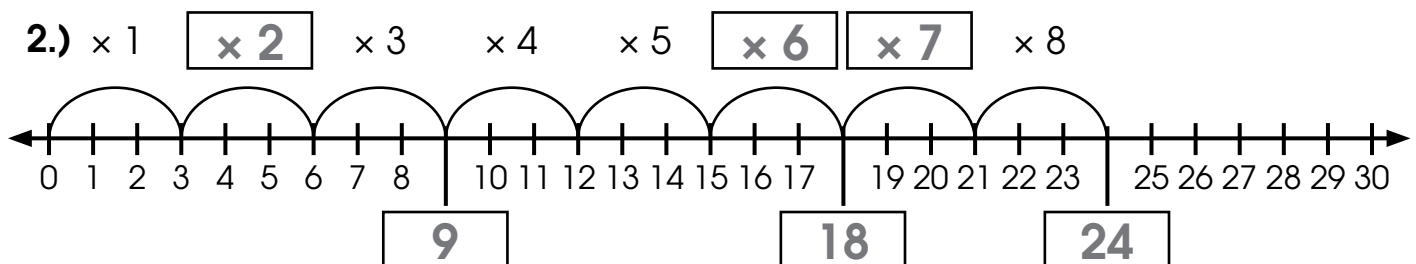
8 × 3 = 24

8 groups of 3 equals 24

3.) Jackson is asked to bag up cookies at the bakery where he works. He is told to put 3 cookies in each bag. He has been given 7 bags to fill. How many cookies will Jackson need to fill all 7 bags?

×1 ×2 ×3 ×4 ×5 ×6 ×7

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

__7__ groups of __3__ equals __21__

__7__ × __3__ = __21__

$$\frac{}{8}$$
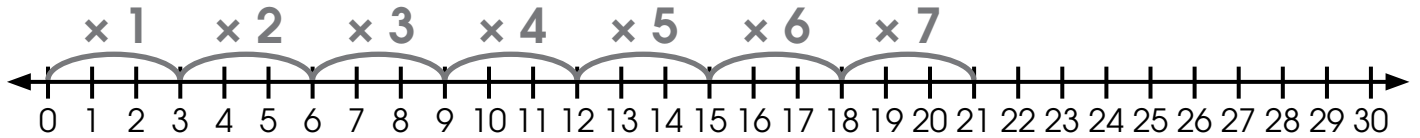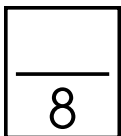
1.) Write the repeated addition equation for the equal-groups model.

⊙ ⊙ ⊙ _____

2.) Draw the equal groups model for 2 groups of 8.

Fill in the boxes, solve the multiplication problem using the number line.

3.)

0 1 2 3 4 5 | 7 8 9 10 11 | 13 14 15 16 17 18 19 20 21 22 23 | 25 26 | 28 29 30
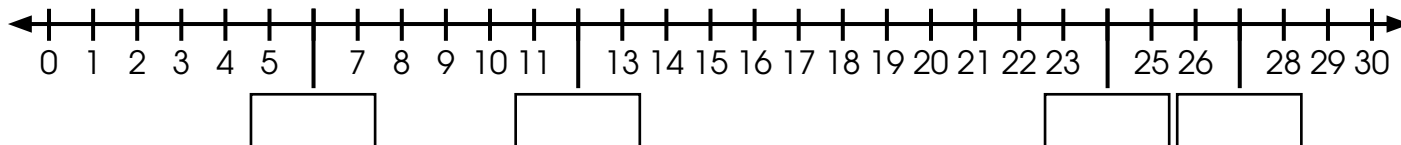
4.) $9 \times 3 =$ ☐

5.) ☐ groups of ☐ equals ☐

Represent the problem on the number line and solve.

6.)

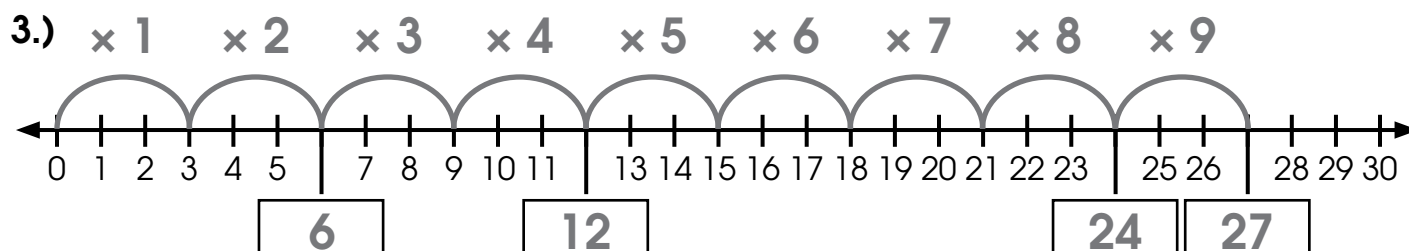0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
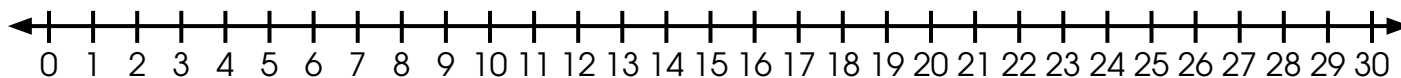
$8 \times 2 =$ ____

____ groups of ____ equals _____

7.) Represent the problem on the number line and solve.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
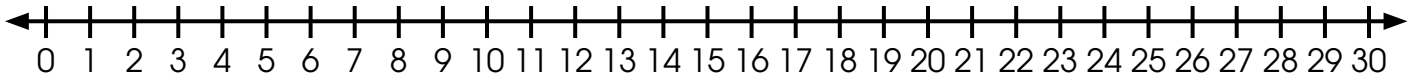
$3 \times 6 =$ _____

_____ groups of _____ equals _____

8.) Karen was asked to model 2×7 on the number line. Circle the answer that shows the correct model.

A

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

B

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

C

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

D

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

STOP

41

$\frac{}{8}$
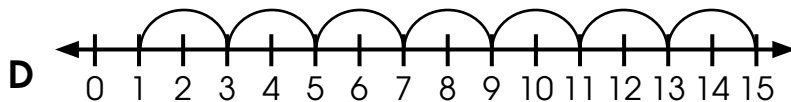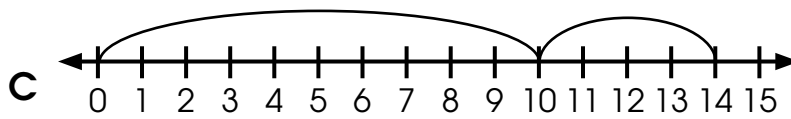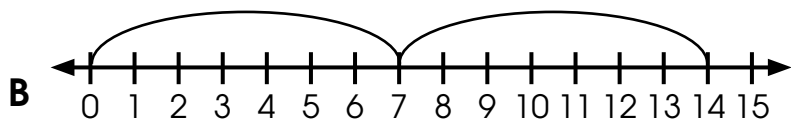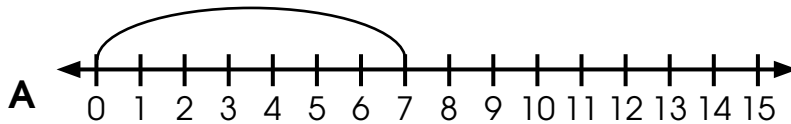
1.) Write the repeated addition equation for the equal-groups model.

    $4 + 4 + 4 = 12$
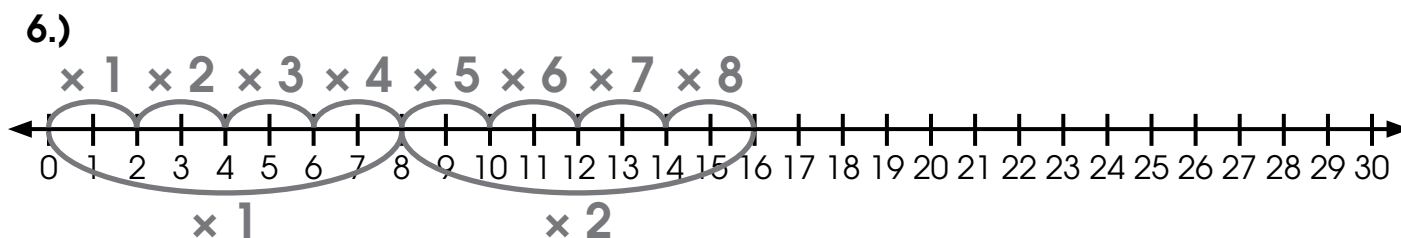
2.) Draw the equal groups model for 2 groups of 8.

Fill in the boxes, solve the multiplication problem using the number line.

3.)

× 1   × 2   × 3   × 4   × 5   × 6   × 7   × 8   × 9

0 1 2 3 4 5   7 8 9 10 11   13 14 15 16 17 18 19 20 21 22 23   25 26   28 29 30

6   **12**   **24**   **27**

4.) $9 \times 3 =$ **27**

5.) **9** groups of **3** equals **27**

Represent the problem on the number line and solve.

6.)

× 1 × 2 × 3 × 4 × 5 × 6 × 7 × 8

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

× 1   × 2

$8 \times 2 =$ __16__

or

__8__ groups of __2__ equals __16__   2 groups of 8 equals 16

7.) Represent the problem on the number line and solve.

× 1   × 2   × 3

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
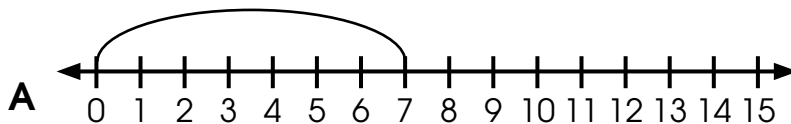
× 1   × 2   × 3   × 4   × 5   × 6
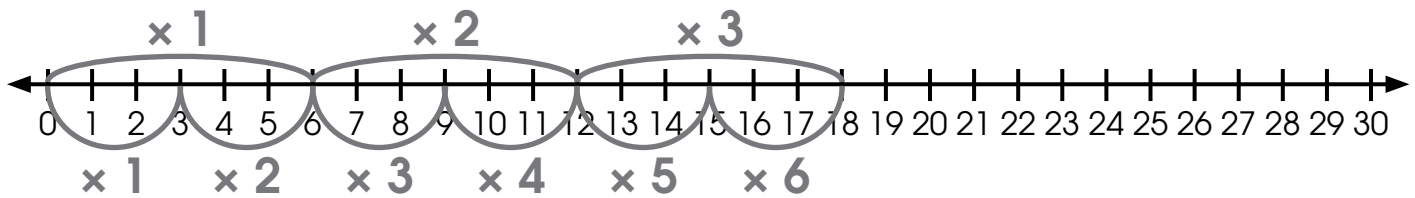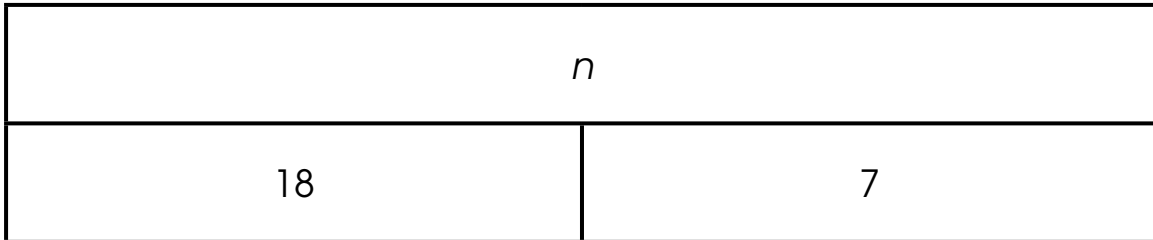
3 × 6 = __18__

or

__3__ groups of __6__ equals __18__   **6 groups of 3 equals 18**

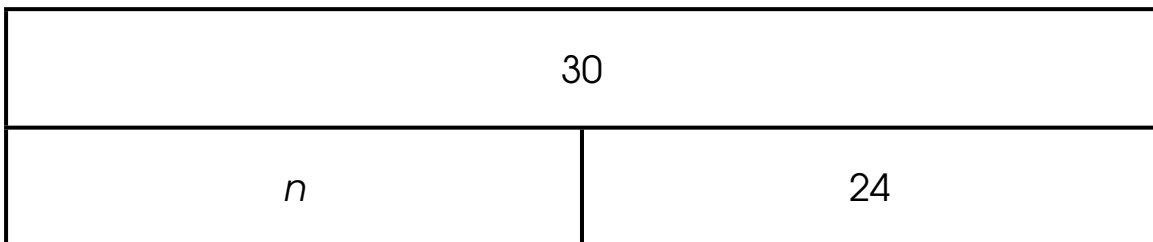**8.)** Karen was asked to model 2 × 7 on the number line. Circle the answer that shows the correct model.

A

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

B

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

C

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

D

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Use addition or subtraction to find the unknown.

1.)

n	
18	7

_____

2.)

30	
n	24

_____
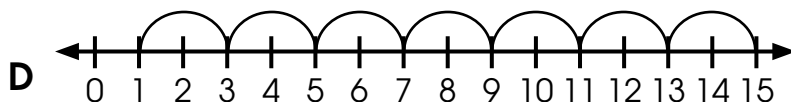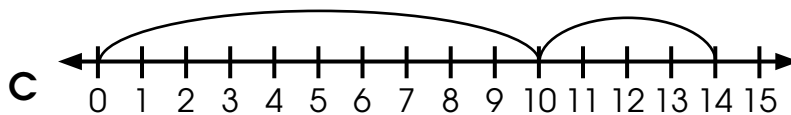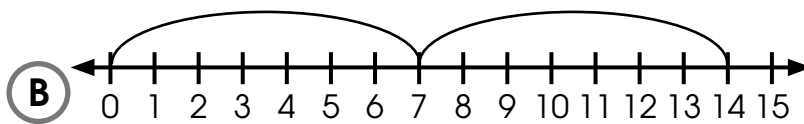
3.) Write a story problem using the numbers from 1 of the strip diagrams above.

_____

_____

_____

_____

Use addition or subtraction to find the unknown.

1.)

n	
18	7

$\underline{18 + 7 = 25}$ $\qquad\qquad$ $n = 25$

2.)

30	
n	24

$\underline{30 - 24 = 6}$ $\qquad\qquad$ $n = 6$

3.) Write a story problem using the numbers from 1 of the strip diagrams above.

answers will vary

STOP

$3 \times 6 =$ ___?___

_____ groups of _____

| 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 |

n			
6			
part	part	part	part

_____ × _____ = _____
number   value of   whole
of parts   each part

$$3 \times 6 = \underline{\quad ? \quad}$$

$$\underline{\quad 3 \quad} \text{ groups of } \underline{\quad 6 \quad}$$

×1	×2	×3

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

6   6   6

Workspace

n			
6	6	6	6
part	part	part	part
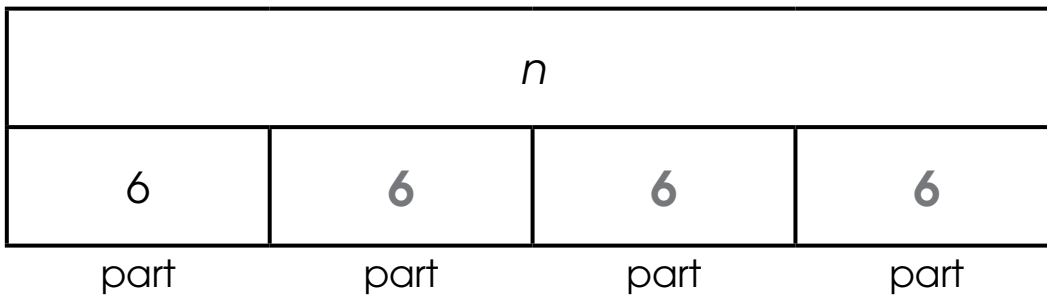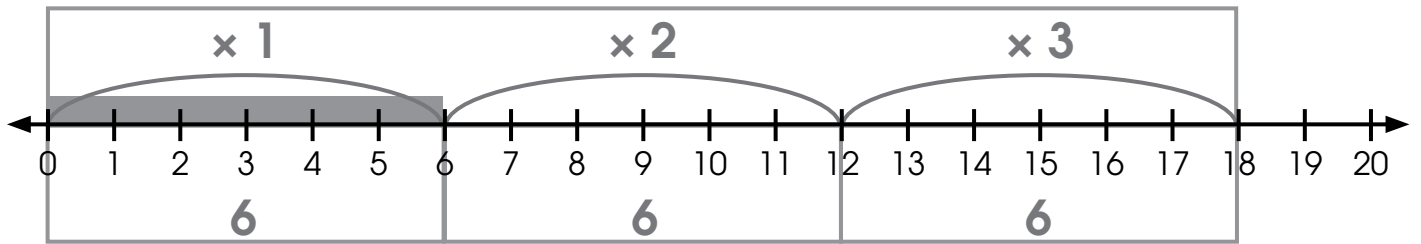
$$
\begin{array}{r}
6 \\
+ \ 6 \\
\hline
12 \\
+ \ 6 \\
\hline
18 \\
+ \ 6 \\
\hline
24
\end{array}
$$

$$\underline{\quad 4 \quad} \times \underline{\quad 6 \quad} = \underline{\quad 24 \quad}$$

number   value of   whole
of parts   each part

STOP

47

Use the number line and draw a strip diagram to solve.

1.) Over the winter break, Trevor played video games for 4 hours each day. If he played video games for 3 days in a row, how many hours of video games did he play for all 3 days?

0   20

_____ × _____ = _____

3.)

Write multiplication equations for the strip diagrams and solve.

2.)

n						
3						

Workspace

_____ × _____ = _____

n		
6		

Workspace

_____ × _____ = _____

Draw a strip diagram for the given multiplication problems and solve.

4.) 5 × 4 = _____

5.) 6 × 6 = _____

6.) Write a story problem for one of the strip diagram above.
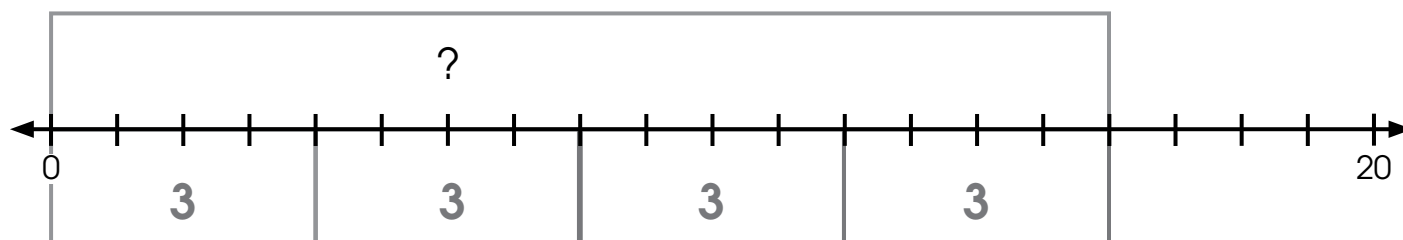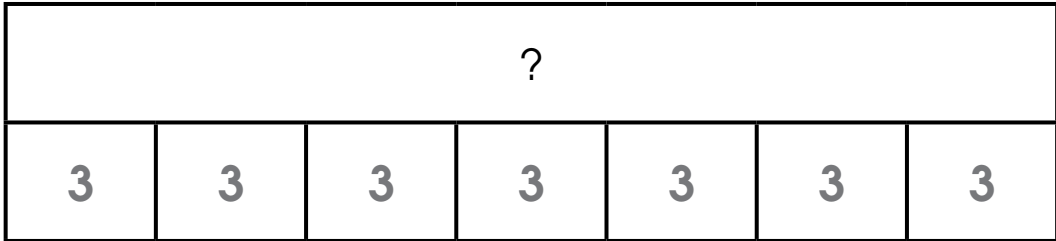
_____

_____

_____

_____

_____

Use the number line and draw a strip diagram to solve.

1.) Over the winter break, Trevor played video games for 4 hours each day. If he played video games for 3 days in a row, how many hours of video games did he play for all 3 days?
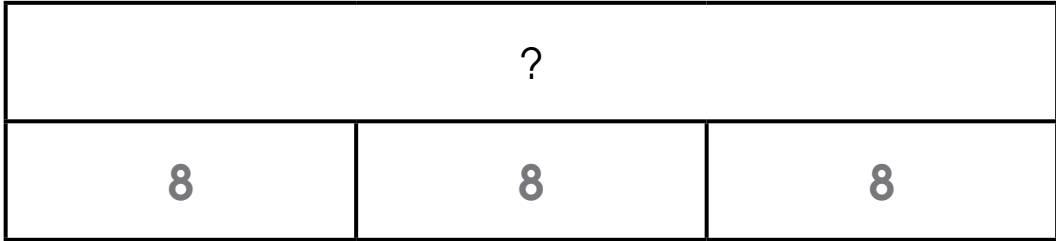
?

0 |———————————————————| 20

| 3 | 3 | 3 | 3 |

__3__ × __4__ = __12__

Write multiplication equations for the strip diagrams and solve.

2.)

?

| 3 | 3 | 3 | 3 | 3 | 3 | 3 |

Workspace

__7__ × __3__ = __21__

3.)

?

| 8 | 8 | 8 |

Workspace

__3__ × __8__ = __24__

Draw a strip diagram for the given multiplication problems and solve.

4.) 5 × 4 = __20__

20				
4	4	4	4	4

5.) 6 × 6 = __36__

36					
6	6	6	6	6	6
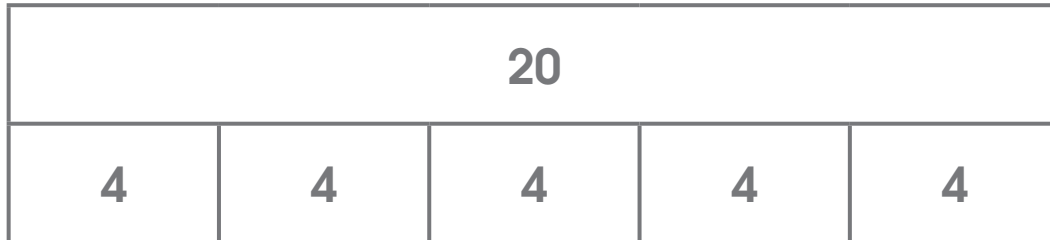
6.) Write a story problem for one of the strip diagram above.

__answers will vary_____

_____

_____

_____

_____

STOP

9

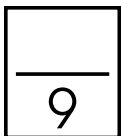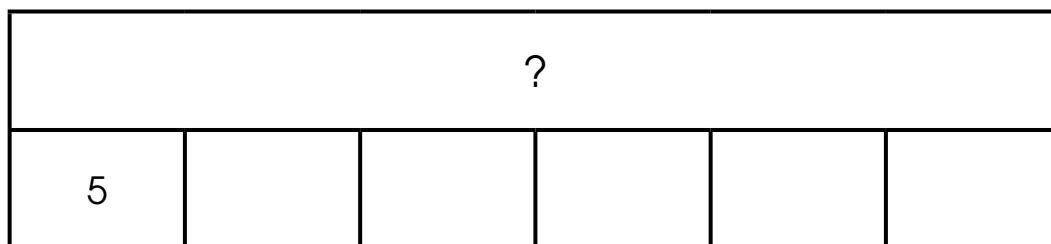**1.)** Write a multiplication sentence for the equal groups sentence.

9 groups of 4 equals 36 _____

2.) Write a multiplication equation for the repeated addition equation.

8 + 8 + 8 + 8 + 8 + 8 + 8 = 56 _____

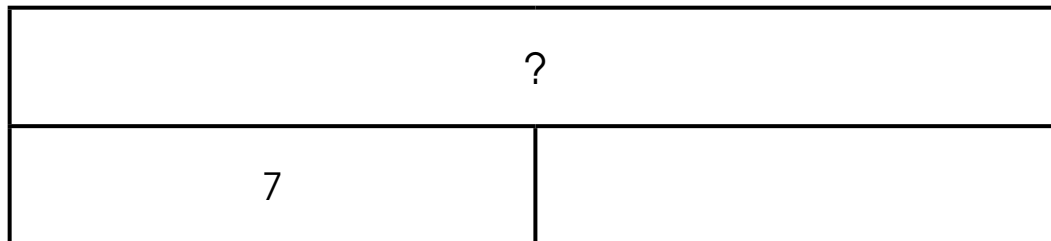Write multiplication equations for the strip diagrams and solve.

3.)

?					
5					

Workspace

____ × ____ = ____

4.)

?	
7	

Workspace

____ × ____ = ____

Draw a strip diagram for the multiplication problems and solve.

5.) 4 × 4 = _____

Workspace

6.)

?			

7.) 4 × 8 = _____

Workspace

8.)

?			

9.) Jonah ran 3 miles every day for 1 week. After 1 week, how many miles did Jonah run in all? (Remember: 1 week = 7 days) Circle the letter of the strip diagram that represents this problem.

A 7 × 3

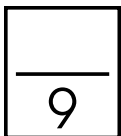| ?						
3						

C 7 × 7

?						
7						

B 3 × 3

?		
3		

D 3 × 1

?
3

STOP

☆ESTAR
INTERVENTION

9

1.) Write a multiplication sentence for the equal groups sentence.
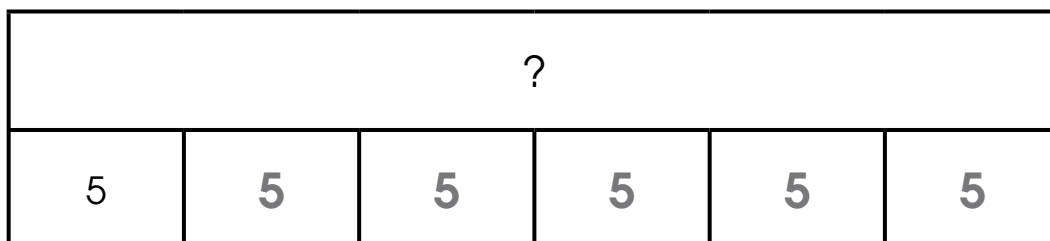
9 groups of 4 equals 36 _____ **9 × 4 = 36** _____

2.) Write a multiplication equation for the repeated addition equation.

8 + 8 + 8 + 8 + 8 + 8 + 8 = 56 _____ **8 × 7 = 56** _____
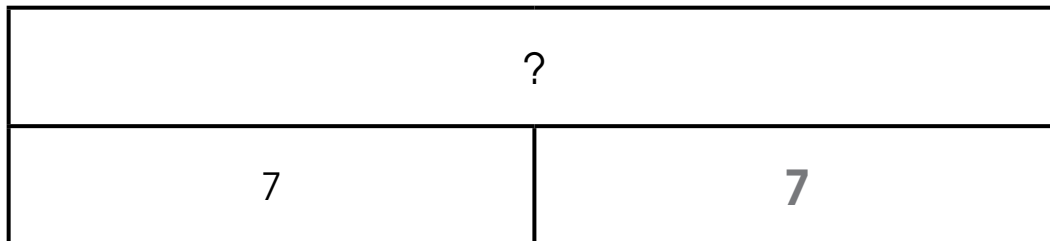
Write multiplication equations for the strip diagrams and solve.

3.)

?					
5	5	5	5	5	5

Workspace

__6__ × __5__ = __30__

4.)

?	
7	7

Workspace

__2__ × __7__ = __14__

Draw a strip diagram for the multiplication problems and solve.

5.) 4 × 4 = __16__

Workspace

6.)

?			
4	4	4	4

7.) 4 × 8 = __32__

Workspace

8.)

?			
8	8	8	8

9.) Jonah ran 3 miles every day for 1 week. After 1 week, how many miles did Jonah run in all? (Remember: 1 week = 7 days) Circle the letter of the strip diagram that represents this problem.

(A) 7 × 3

?						
3						

C 7 × 7

?						
7						

B 3 × 3

?		
3		

D 3 × 1

?
3

Equal groups:

Equal-groups sentence: _____

Repeated addition equation: _____

Multiplication equation: _____

Array:

How many rows? _____

How many columns? _____

Equal-groups sentence: _____

Repeated addition equation: _____

Multiplication equation: _____

Equal groups:

Equal-groups sentence: _____3 groups of 5 equals 15_____

Repeated addition equation: _____5 + 5 + 5 = 15_____

Multiplication equation: _____5 x 3 = 15 or 3 x 5 = 15_____

Array:

How many rows? _____3_____

How many columns? _____5_____

Equal-groups sentence: _____3 groups of 5 equals 15_____

Repeated addition equation: _____5 + 5 + 5 = 15_____

Multiplication equation: _____3 x 5 = 15 or 5 x 3 = 15_____

1.) Use dots or circles to draw an array with 7 rows of 6.

2.) Write a multiplication equation for the array you drew.

_____

3.) Write the equal-groups sentence for 5 × 2 =10.

_____ groups of _____ equals _____

_____ groups of _____ equals _____

4.) Draw an array to model 5 groups of 2.

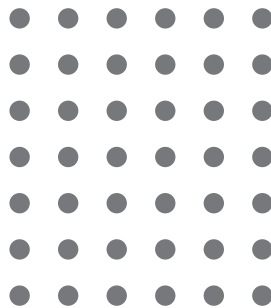**5.)** Write a repeated addition equation for this array.

_____
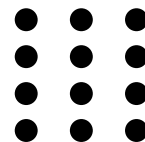
6.) What is the multiplication equation for this array?

_____

1.) Use dots or circles to draw an array with 7 rows of 6.

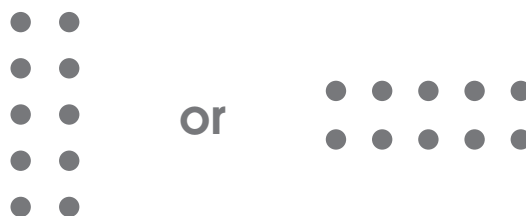**2.)** Write a multiplication equation for the array you drew.

$7 \times 6 = 42$ or $6 \times 7 = 42$

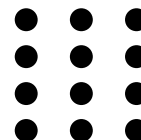**3.)** Write the equal-groups sentence for $5 \times 2 = 10$.

__2__ groups of __5__ equals __10__

__5__ groups of __2__ equals __10__

4.) Draw an array to model 5 groups of 2.

or

5.) Write a repeated addition equation for this array.
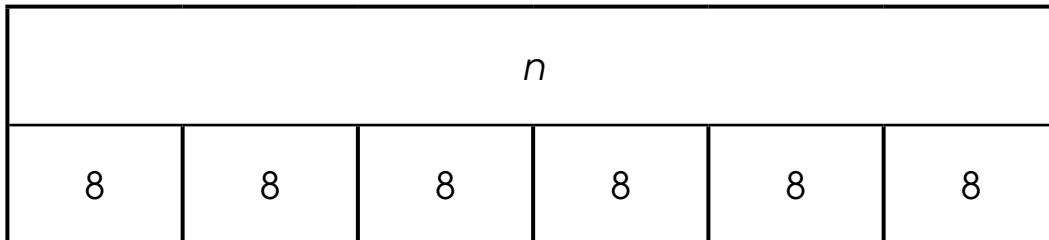
$3 + 3 + 3 + 3 = 12$

or $4 + 4 + 4 = 12$

6.) What is the multiplication equation for this array?

$4 \times 3 = 12$ or $3 \times 4 = 12$

STOP

10

Write a multiplication sentence for the bar models and solve.

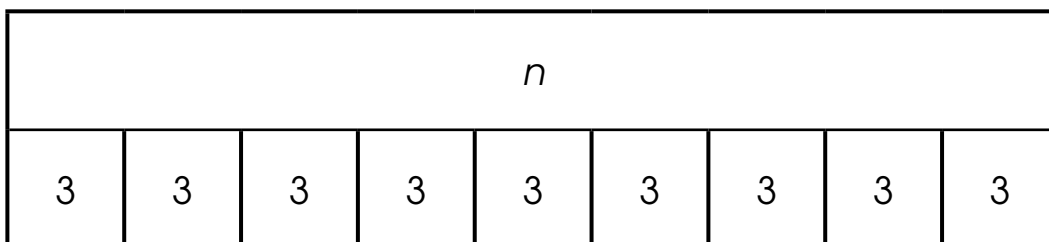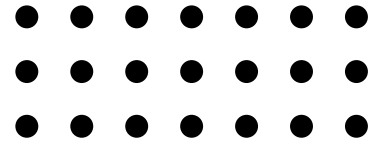**1.)**   : Workspace

n						
8	8	8	8	8	8

_____ × _____ = _____
number   value of   whole
of parts   each part

2.)   : Workspace

n								
3	3	3	3	3	3	3	3	3

_____ × _____ = _____

3.) Write a repeated addition equation for this array.

● ● ● ● ● ● ●
● ● ● ● ● ● ●
● ● ● ● ● ● ●

_____

4.) What is the multiplication equation for this array?

_____

5.) Use dots or circles to draw an array with 4 rows of 6.

6.) Write a multiplication equation for the array you drew.

_____

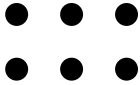**7.)** How do equal groups and array models show multiplication?

_____

_____

_____

8.) The box of crayons has 3 rows with 6 crayons in each row. Circle the letter of the array and multiplication equation that represents the crayon box.
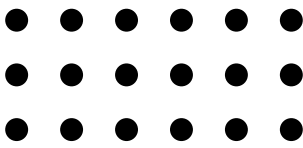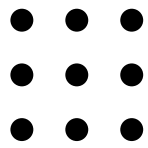
A

● ● ●
● ● ●

3 × 2 = 6

C

● ● ● ● ● ●

6 × 1 = 6

B

● ● ● ● ● ●
● ● ● ● ● ●
● ● ● ● ● ●

3 × 6 = 18

D

● ● ●
● ● ●
● ● ●

3 × 3 = 9

Write a multiplication sentence for the bar models and solve.

1.)

	n				
8	8	8	8	8	8

$$\underline{\ 6\ } \times \underline{\ 8\ } = \underline{\ 48\ }$$

number of parts   value of each part   whole

2.)

			n					
3	3	3	3	3	3	3	3	3

$$\underline{\ 9\ } \times \underline{\ 3\ } = \underline{\ 27\ }$$

3.) Write a repeated addition equation for this array.

$$7 + 7 + 7 = 21$$
or 3 + 3 + 3 + 3 + 3 + 3 + 3 = 21

4.) What is the multiplication equation for this array?

$$3 \times 7 = 21$$
or 7 × 3 = 21

5.) Use dots or circles to draw an array with 4 rows of 6.

6.) Write a multiplication equation for the array you drew.

$$4 \times 6 = 24 \text{ or } 6 \times 4 = 24$$
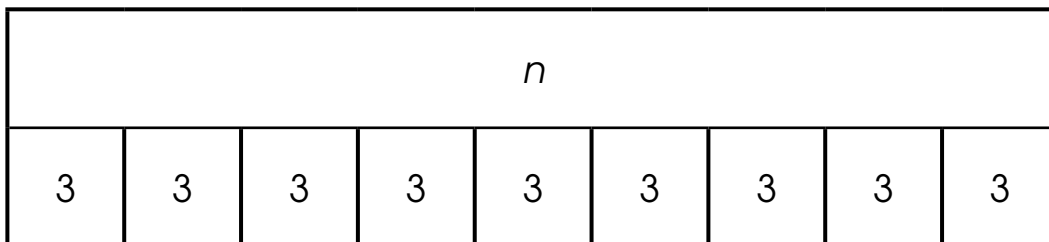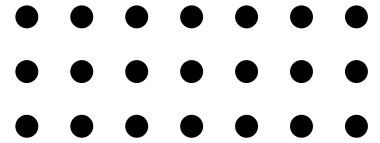
7.) How do equal groups and array models show multiplication?

Show equal groups, but in a row or column.

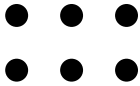**8.)** The box of crayons has 3 rows with 6 crayons in each row. Circle the letter of the array and multiplication equation that represents the crayon box.
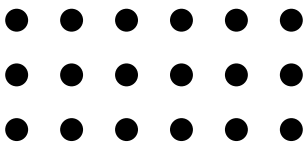
A ● ● ●
    ● ● ●

$3 \times 2 = 6$

C ● ● ● ● ● ●

$6 \times 1 = 6$

(B) ● ● ● ● ● ●
     ● ● ● ● ● ●
     ● ● ● ● ● ●

$3 \times 6 = 18$

D ● ● ●
    ● ● ●
    ● ● ●

$3 \times 3 = 9$

STOP

=

+

+

+

+

+   =

+   ×

=

+   =

+   ×

STOP

$$3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$$

$$7 \times 3 = 21$$

$$7 + 7 + 7 = 21$$

$$3 \times 7 = 21$$

☆ESTAR
INTERVENTION

_____
columns

_____
rows

_____ × _____ = _____

_____ × _____ = _____

The area of the carpet is _____ square units.

STOP

68

☆ESTAR
INTERVENTION

_9_

columns

_5_
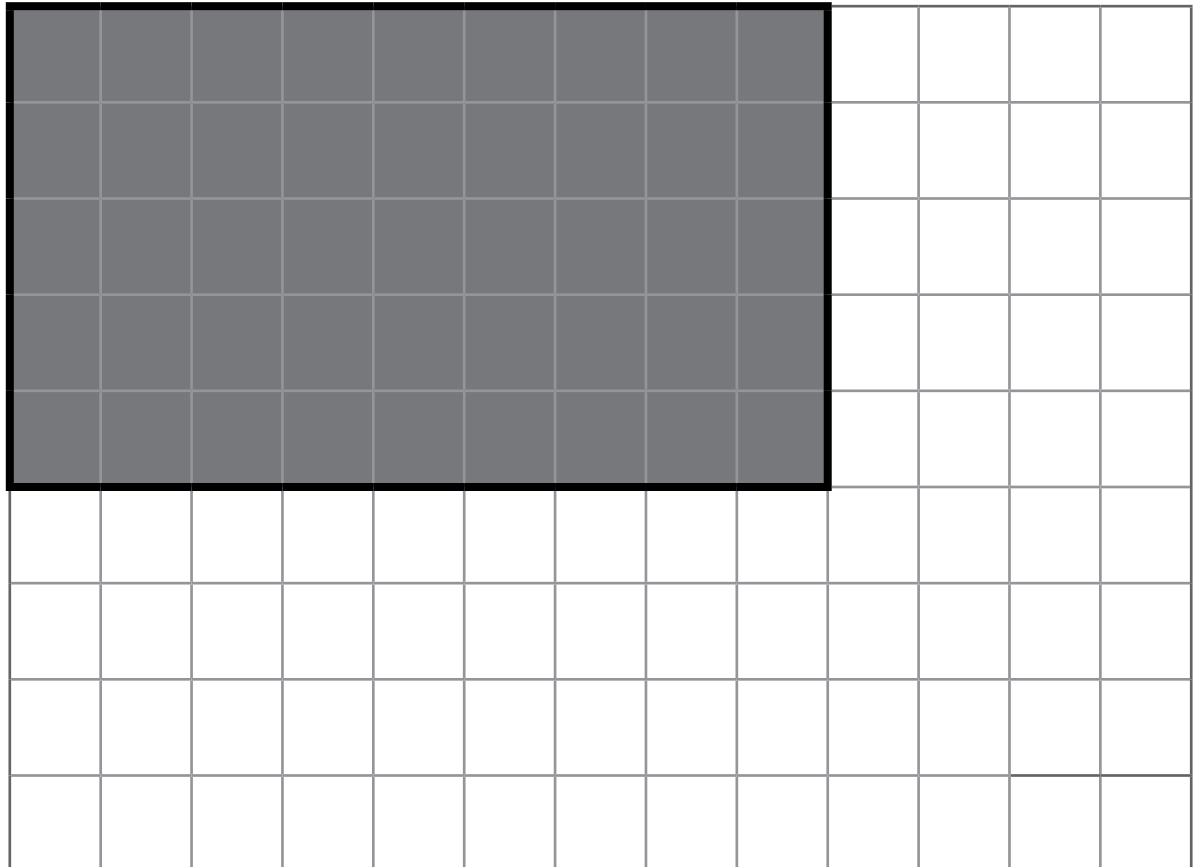
rows

$$\underline{5} \times \underline{9} = \underline{45}$$

$$\underline{9} \times \underline{5} = \underline{45}$$

The area of the carpet is __45__ square units.

Sienna is sewing a quilt. She put the quilt squares in 3 rows of 10 quilt squares. Find the area of the quilt using the tiles.

Write 2 multiplication equations that represent the array.

1.) _____ × _____ = _____

2.) _____ × _____ = _____

The area of the quilt is _____ square units.

Area of My Neighborhood

Directions:

1. Write a multiplication expression.
2. Find the area of each place in the neighborhood.
3. Record your answers here:

Gas Station: _____ × _____   Hospital: _____ × _____   Grocery Store: _____ × _____

A = _____   A = _____   A = _____

Park: _____ × _____   School: _____ × _____   Post Office: _____ × _____

A = _____   A = _____   A = _____

STOP

Sienna is sewing a quilt. She put the quilt squares in 3 rows of 10 quilt squares. Find the area of the quilt using the tiles.

Write 2 multiplication equations that represent the array.

1.) __3__ × __10__ = __30__

2.) __10__ × __3__ = __30__

The area of the quilt is __30__ square units.

Area of My Neighborhood

Directions:
1. Write a multiplication expression.
2. Find the area of each place in the neighborhood.
3. Record your answers here:

Gas Station: __2__ × __2__   Hospital: __4__ × __5__   Grocery Store: __3__ × __3__

A = __4__   A = __20__   A = __9__

Park: __4__ × __2__   School: __5__ × __7__   Post Office: __4__ × __4__

A = __8__   A = __35__   A = __16__
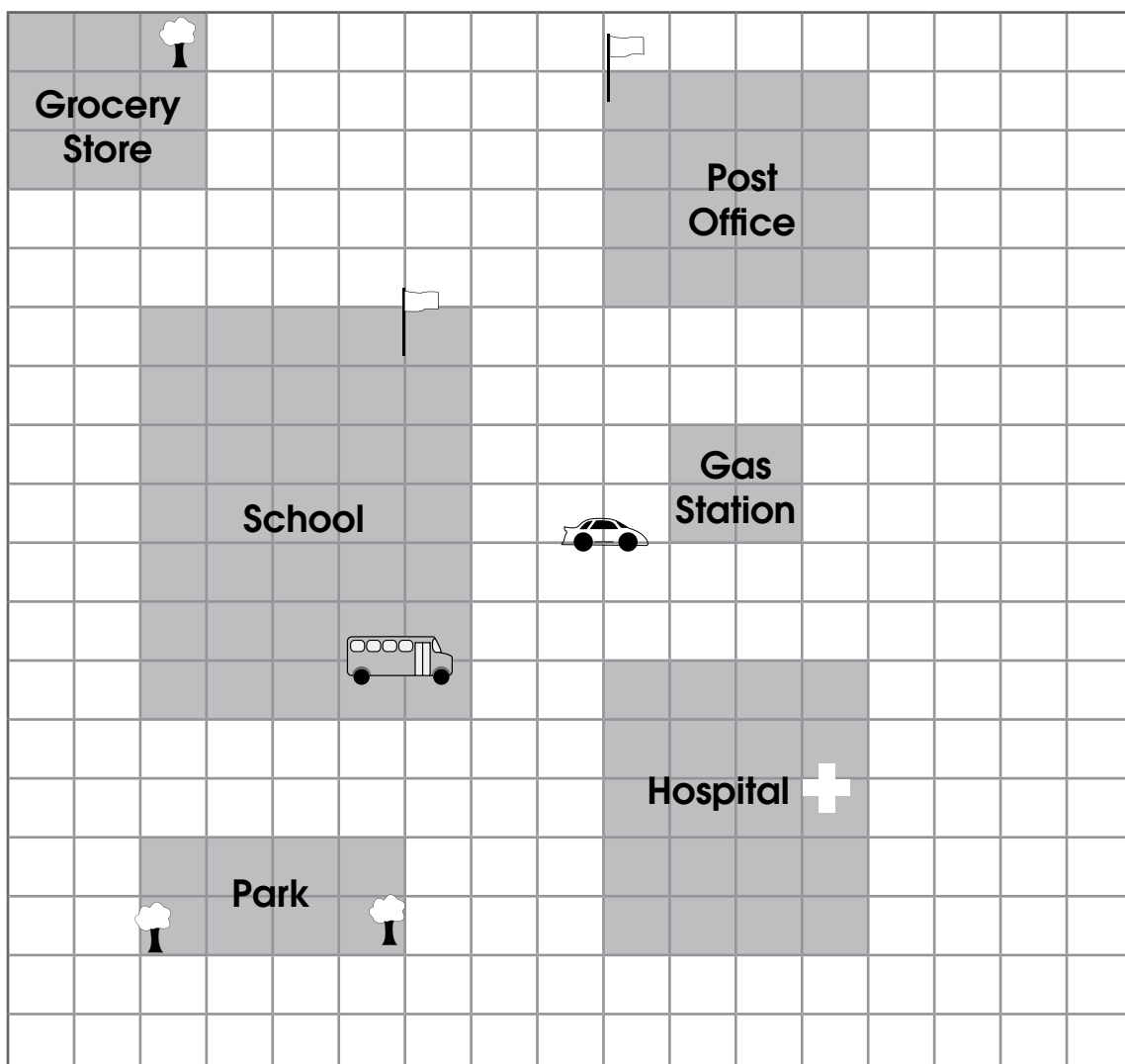
Read and solve. Look at the array below.
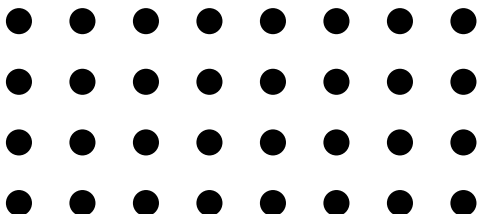
1.) Write a repeated addition equation for the array.

_____

2.) Write a multiplication equation for the array. _____

3.) Write another multiplication equation for the array. _____

4.) The package of batteries has 6 rows of 2 batteries in each row. Which array and multiplication sentence best represents the batteries.

A • • • • • •
    6×1

C • • • • • • •
   • • • • • •
   • • • • • •
    3×6

B • •
   • •
   • •
   • •
   • •
    5×2

D • •
   • •
   • •
   • •
   • •
   • •
    6×2

Look at the shaded area.
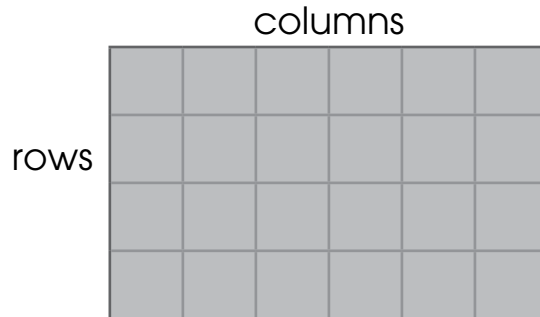
columns

rows

5.) How many columns? _____

How many in each column? _____

6.) How many rows? _____

How many in each row? _____

7.) Write 2 multiplication equations that represent the shaded area.

_____ × _____ = _____   _____ × _____ = _____
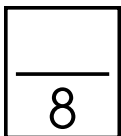
8.) Aaron is drawing a model of the kitchen floor. He shaded 8 columns of 3 tiles. Use the grid to show Aaron's drawing of the floor.
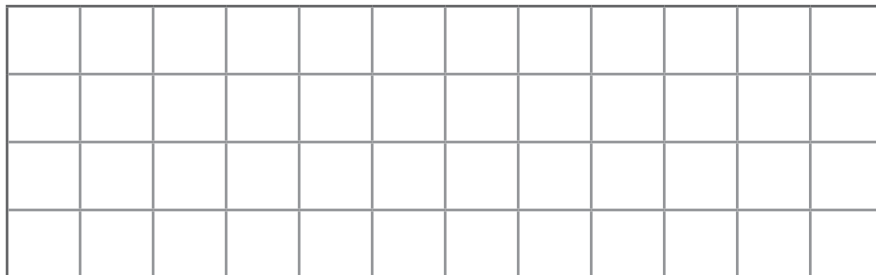
What is the area of the kitchen floor? _____ square units

STOP

Read and solve. Look at the array below.
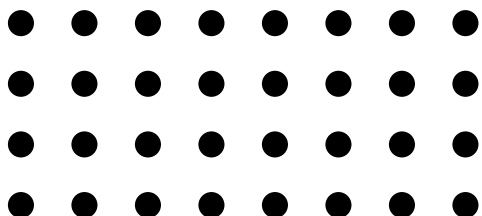
1.) Write a repeated addition equation for the array.
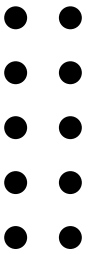
$$8 + 8 + 8 + 8 = 32$$
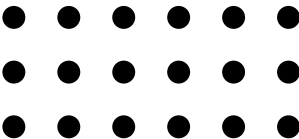
2.) Write a multiplication equation for the array. ____ $4 \times 8 = 32$ ____
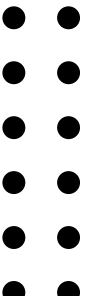
3.) Write another multiplication equation for the array. ____ $8 \times 4 = 32$ ____

4.) The package of batteries has 6 rows of 2 batteries in each row. Which array and multiplication sentence best represents the batteries.

A • • • • • •
6×1

C • • • • • • •
  • • • • • • •
  • • • • • • •
3×6

B • •
  • •
  • •
  • •
  • •
5×2

D • •
  • •
  • •
  • •
  • •
  • •
6×2

Look at the shaded area.
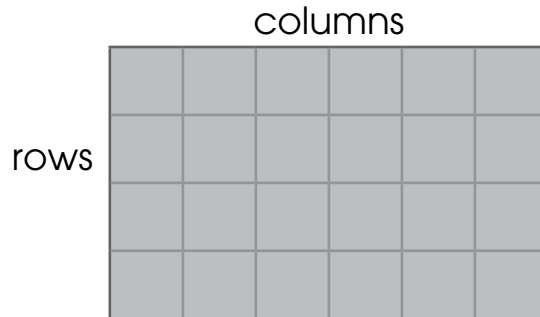
columns

rows

5.) How many columns? _____**6**_____

How many in each column? _____**4**_____

6.) How many rows? _____**4**_____

How many in each row? _____**6**_____

7.) Write 2 multiplication equations that represent the shaded area.

_____**4**_____ × _____**6**_____ = _____**24**_____   _____**6**_____ × _____**4**_____ = _____**24**_____

8.) Aaron is drawing a model of the kitchen floor. He shaded 8 rows of 3 tiles. Use the grid to show Aaron's drawing of the floor.
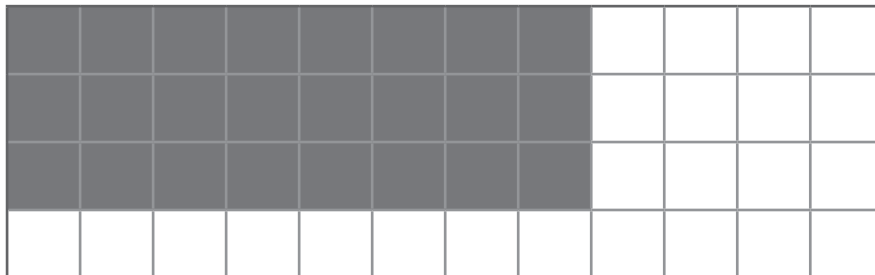
What is the area of the kitchen floor? _____**24**_____ square units

Number line:

$$3 \times 8 = \underline{\qquad}$$

Array model:

Repeated addition equation:

$$\underline{\qquad} + \underline{\qquad} + \underline{\qquad} + \underline{\qquad} = \underline{\qquad}$$

Multiplication equation:

$$\underline{\qquad} \times \underline{\qquad} = \underline{\qquad}$$

$$\underline{\qquad} \times \underline{\qquad} = \underline{\qquad}$$

Area Model:

Multiplication equation:

$$\underline{\qquad} \times \underline{\qquad} = \underline{\qquad}$$

$$\underline{\qquad} \times \underline{\qquad} = \underline{\qquad}$$

The area is _____ square units.

STOP

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Number line:

×1   ×2   ×3

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
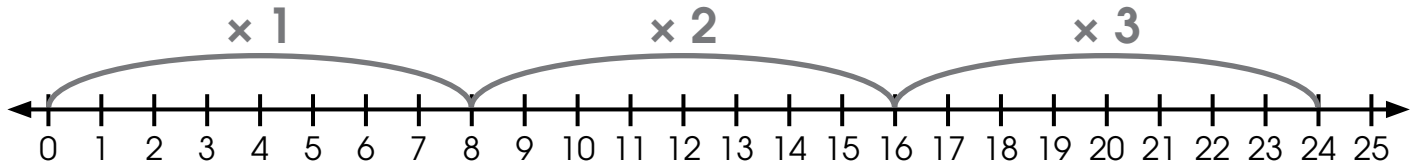
$3 \times 8 = \underline{\ \ 24\ \ }$

Array model:
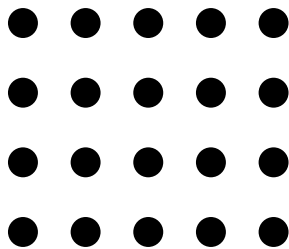
Repeated addition equation:

$\underline{\ 5\ } + \underline{\ 5\ } + \underline{\ 5\ } + \underline{\ 5\ } = \underline{\ 20\ }$

Multiplication equation:

$\underline{\ 5\ } \times \underline{\ 4\ } = \underline{\ 20\ }$

$\underline{\ 4\ } \times \underline{\ 5\ } = \underline{\ 20\ }$

Area Model:
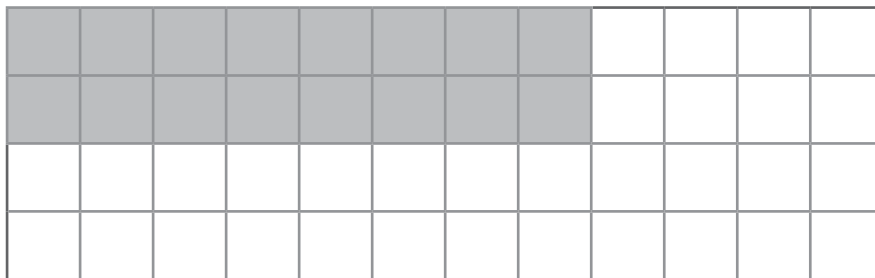
Multiplication equation:

$\underline{\ 2\ } \times \underline{\ 8\ } = \underline{\ 16\ }$

$\underline{\ 8\ } \times \underline{\ 2\ } = \underline{\ 16\ }$

The area is __16__ square units.

STOP

☆ESTAR
INTERVENTION

Karina earned $7 a week for doing her chores. She did her chores for 4 weeks. How much money did Kristina earn?

Use the number line to solve.
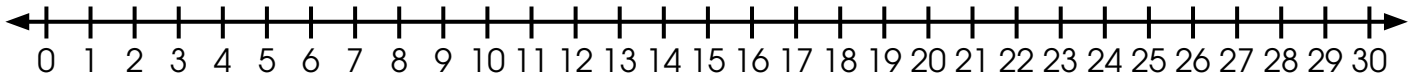
1.) Write the repeated addition equation.

_____

2.) Write 2 multiplication equations.

_____   _____

3.) Kristina earned $ _____ .

Read the problem:

$$7 \times 6$$

Write a repeated addition equation.

_____

Draw an array using circles.

Shade the area in the grid.
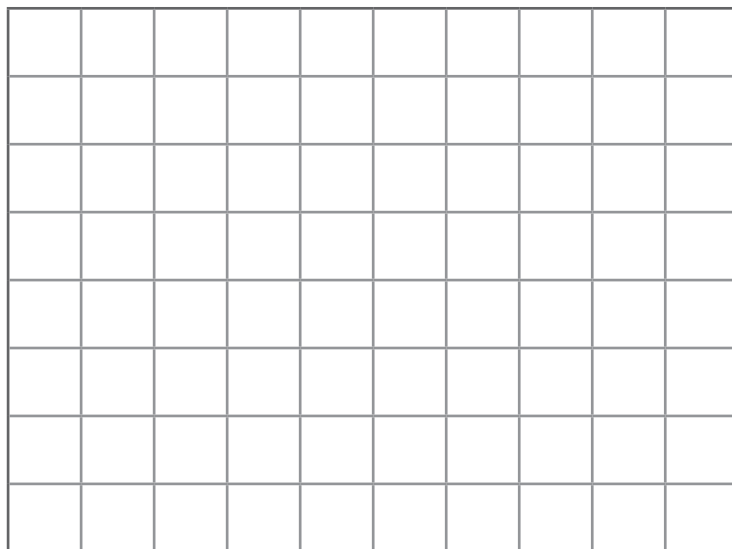
Solve the problem:

$$7 \times 6 = \underline{\hspace{1cm}}$$

Karina earned $7 a week for doing her chores. She did her chores for 4 weeks. How much money did Kristina earn?

Use the number line to solve.
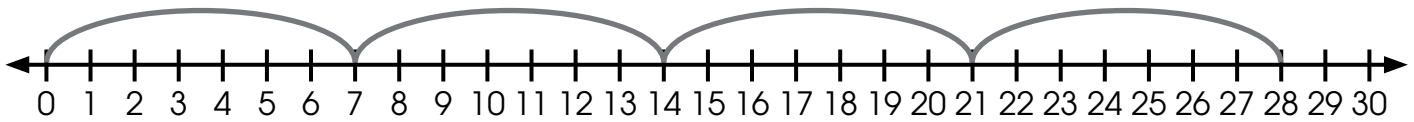
1.) Write the repeated addition equation.

$$7 + 7 + 7 + 7 = 28$$

or 4 + 4 + 4 + 4 + 4 + 4 + 4 = 28

2.) Write 2 multiplication equations.

$$7 \times 4 = 28 \qquad\qquad 4 \times 7 = 28$$

3.) Kristina earned $ ____28____ .

Read the problem:

$$7 \times 6$$

Write a repeated addition equation.

7 + 7 + 7 + 7 + 7 + 7
_____
or 4 + 4 + 4 + 4 + 4 + 4 + 4 = 28

Draw an array using circles.
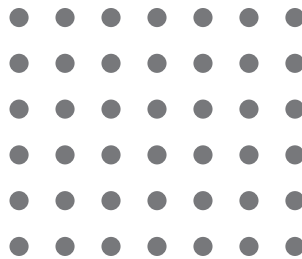
Shade the array in the grid.
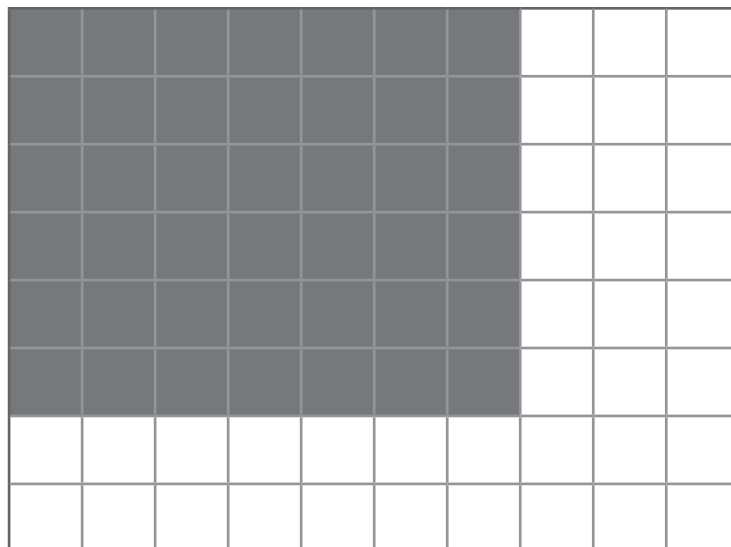
Solve the problem:

$$7 \times 6 = \underline{\quad 42 \quad}$$

1.) Use dots or circles to draw an array with 5 rows of 2.

2.) Write the repeated addition equation.

_____

3.) Write 2 multiplication equations for the array.

_____

_____

4.) Look at the array below.
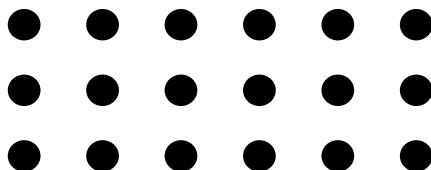
Which expression best represents the array?

A 3×5 **B** 6×2 **C** 6×3 **D** 7×3

5.) Look at the shaded area.
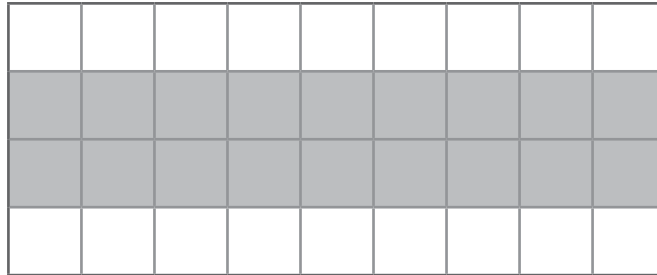
Write 2 multiplication equations that represent the shaded area.

_____   _____

6.) What is the shaded area? _____ square units

7.) Matthew is building a dog house. What is the area of the dog house in his drawing?
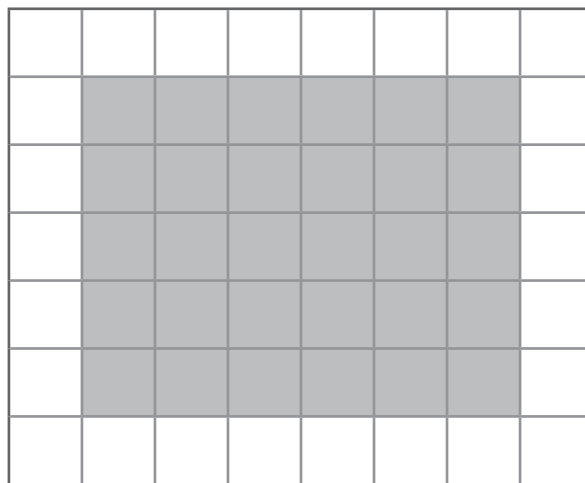
The area of the dog house is _____ square units.

8.) Which multiplication equations can be used to find the area of the dog house?

A 5×5 B 5×6 C 5×7 D 6×4

STOP

85

1.) Use dots or circles to draw an array with 5 rows of 2.

• •
• •
• •
• •
• •
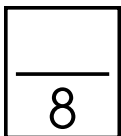
2.) Write the repeated addition equation.

$\underline{2 + 2 + 2 + 2 + 2 = 10 \text{ or } 5 + 5 = 10}$

3.) Write 2 multiplication equations for the array.

$\underline{2 \times 5 = 10}$

$\underline{5 \times 2 = 10}$

4.) Look at the array below.
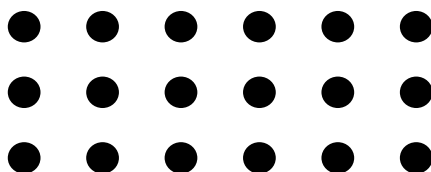
● ● ● ● ● ●
● ● ● ● ● ●
● ● ● ● ● ●

Which expression best represents the array?

A 3×5 **B** 6×2 **C** 6×3 **D** 7×3

5.) Look at the shaded area.
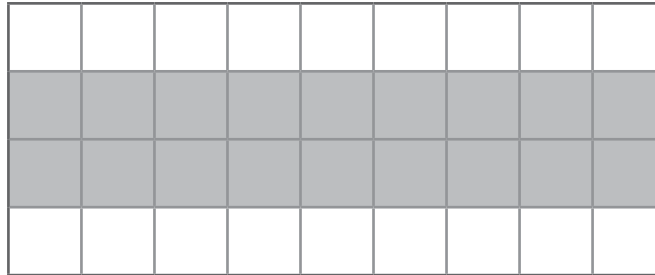
Write 2 multiplication equations that represent the shaded area.

$$2 \times 9 = 18$$ $$9 \times 2 = 18$$

6.) What is the shaded area? _____**18**_____ square units

7.) Matthew is building a dog house. What is the area of the dog house in his drawing?
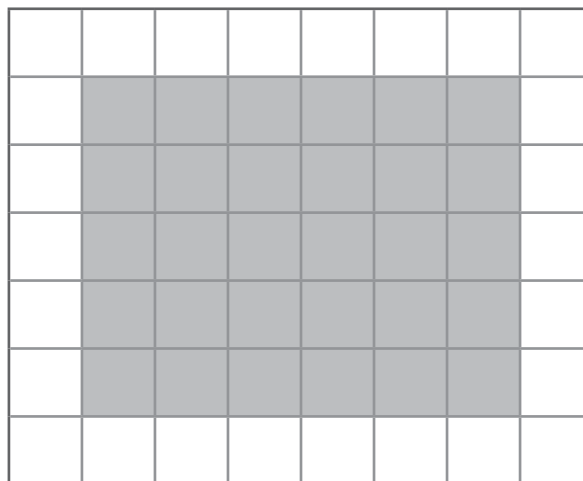
The area of the dog house is _____**30**_____ square units.

8.) Which multiplication equations can be used to find the area of the dog house?

A 5×5 **B** 5×6 **C** 5×7 **D** 6×4

STOP

Solve each problem using the multiplication table. Circle the product for each problem.

1.) 9 × 6 = _____

2.)   8
      × 7
      ___

3.)   7
      × 3
      ___

4.) 8 × 4 = _____

5.) 6 × 7 = _____

6.)   2
      × 9
      ___

Use the multiplication table to list the multiples.

7.) List the multiples of 7 to 70. _____

8.) List the multiples of 3 to 30. _____

9.) The Cowboys scored 6 touchdowns during the football game on Sunday. Each touchdown earned the team 7 points. What is the score after 6 touchdowns? Write the problem and use your multiplication table to solve.

Connect Four

Materials needed:

   1. 2 number cubes

   2. 2 different colored counters

   3. Multiplication chart

Directions:

   1. Roll a number cube to see who goes first.

   2. **Player 1** rolls both number cubes to create a multiplication problem.

   3. Place your counter on the product.

   4. **Player 2** repeats the same steps.

   5. The first player to get 4 in a row wins.

   6. Once a square is marked, it cannot be used again. Use your knowledge of the Commutative Property of Multiplication to find a square that is not marked.

STOP

89

Solve each problem using the multiplication table. Circle the product for each problem.

1.) $9 \times 6 =$ ___54___

2.)
$$\begin{array}{r} 8 \\ \times\ 7 \\ \hline 56 \end{array}$$

3.)
$$\begin{array}{r} 7 \\ \times\ 3 \\ \hline 21 \end{array}$$

4.) $8 \times 4 =$ ___32___

5.) $6 \times 7 =$ ___42___

6.)
$$\begin{array}{r} 2 \\ \times\ 9 \\ \hline 18 \end{array}$$

Use the multiplication table to list the multiples.

7.) List the multiples of 7 to 70. __7, 14, 21, 28, 35, 42, 49, 56, 63, 70__

8.) List the multiples of 3 to 30. __3, 6, 9, 12, 15, 18, 21, 24, 27, 30__

9.) The Cowboys scored 6 touchdowns during the football game on Sunday. Each touchdown earned the team 7 points. What is the score after 6 touchdowns? Write the problem and use your multiplication table to solve.

$6 \times 7 = 42$

Connect Four

Materials needed:

1. 2 number cubes

2. 2 different colored counters

3. Multiplication chart

Directions:

1. Roll a number cube to see who goes first.

2. **Player 1** rolls both number cubes to create a multiplication problem.

3. Place your counter on the product.

4. **Player 2** repeats the same steps.

5. The first player to get 4 in a row wins.

6. Once a square is marked, it cannot be used again. Use your knowledge of the Commutative Property of Multiplication to find a square that is not marked.

10

Read and solve.

1.) Write a multiplication equation using the area model below.

_____

2.) Write a multiplication equation using the bar model.

?			
3			

_____
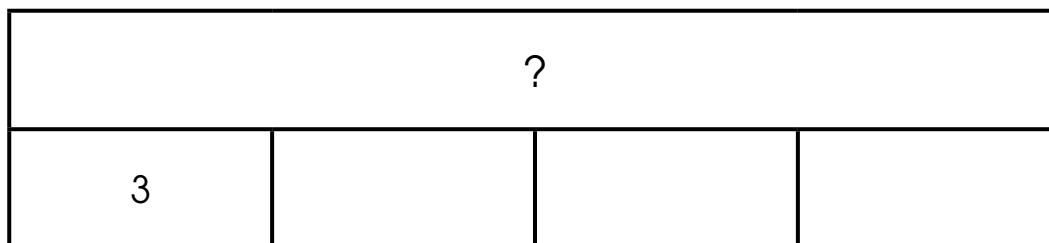
Use the words "factor" and "product" to fill in the blanks.

3.) _____ × _____ = _____

Solve the multiplication problems using the multiplication table.

4.) $\begin{array}{r} 4 \\ \times\,7 \\ \hline \end{array}$

5.) $\begin{array}{r} 6 \\ \times\,6 \\ \hline \end{array}$

6.) $9 \times 8 = $ _____

7.) $3 \times 8 = $ _____

8.) $\begin{array}{r} 7 \\ \times\,7 \\ \hline \end{array}$

9.) $8 \times 8 = $ _____

Choose the best answer.

10.) During the football game on Friday, the Tigers scored 8 field goals. Each field goal is worth 3 points. How many points did the tigers earn for the field goals?

A $8 \times 3 = 24$

C $3 \times 8 = 42$

B $8 \times 7 = 56$

D $8 \times 3 = 12$

STOP

93

Read and solve.

1.) Write a multiplication equation using the area model below.

$4 \times 3 = 12$ or $3 \times 4 = 12$

2.) Write a multiplication equation using the bar model.

?			
3			
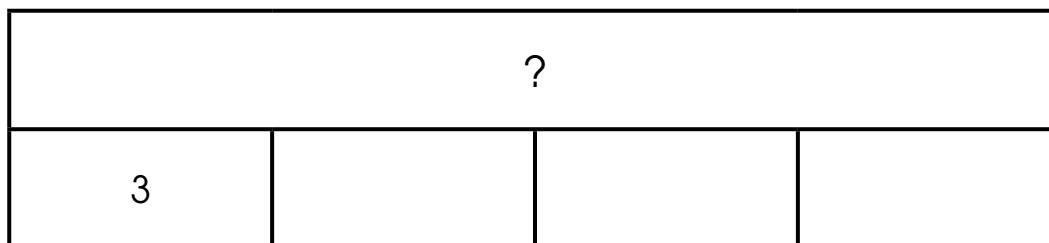
$4 \times 3 = 12$ or $3 \times 4 = 12$

Use the words "factor" and "product" to fill in the blanks.

3.) _____ factor _____ × _____ factor _____ = _____ product _____

Solve the multiplication problems using the multiplication table.

4.)
$$\begin{array}{r} 4 \\ \times\ 7 \\ \hline 28 \end{array}$$

5.)
$$\begin{array}{r} 6 \\ \times\ 6 \\ \hline 36 \end{array}$$

6.) $9 \times 8 =$ __72__

7.) $3 \times 8 =$ __24__

8.)
$$\begin{array}{r} 7 \\ \times\ 7 \\ \hline 49 \end{array}$$

9.) $8 \times 8 =$ __64__

Choose the best answer.

10.) During the football game on Friday, the Tigers scored 8 field goals. Each field goal is worth 3 points. How many points did the tigers earn for the field goals?

(A) $8 \times 3 = 24$ **C** $3 \times 8 = 42$

B $8 \times 7 = 56$ **D** $8 \times 3 = 12$

STOP

95

Equal Share: Breaking quantities apart so that everyone gets the same amount.

_____ shared equally with _____ students

equals _____ per student with _____ leftover.

Equal Share: Breaking quantities apart so that everyone gets the same amount.

_____ shared equally with _____ students equals _____ per student with _____ leftover.

Answers will vary depending on the size of the group

Use counters to solve.

1.) 4 friends found a treasure chest with 21 coins in it. How many coins did each friend get after the friends shared the coins equally?

_____ shared equally with _____ friends equals _____ per friend with _____ leftover.

2.) 6 pirates found a lost treasure of gold. So no one would get hurt, the pirates decided to share the 28 pieces of gold equally. How many pieces of gold did each pirate get?

_____ shared equally with _____ pirates equals _____ per pirate with _____ leftover.

Equal Share Charades

Materials needed:
   1. Equal Share Charade Cards

Directions:
   1. **Player 1** picks a charade card.

   2. Using counters, **Player 1** "acts out" the problem.

   3. **Player 2** watches carefully to try to figure it out what problem player 1 is solving.

   4. **Player 2** records their guess in the equal groups sentence below.

   5. If player 2 is correct, then the players switch roles.

   6. If player 2 is incorrect, player 1 has 1 more chance to act out the problem.

1.) _____ shared equally with _____ friends equals _____ per friend with _____ leftover.

2.) _____ shared equally with _____ friends equals _____ per friend with _____ leftover.

3.) _____ shared equally with _____ friends equals _____ per friend with _____ leftover.

STOP

Use counters to solve.

1.) 4 friends found a treasure chest with 21 coins in it. How many coins did each friend get after the friends shared the coins equally?

_____**21**_____ shared equally with _____**4**_____ friends equals _____**5**_____ per friend with _____**1**_____ leftover.

2.) 6 pirates found a lost treasure of gold. So no one would get hurt, the pirates decided to share the 28 pieces of gold equally. How many pieces of gold did each pirate get?

_____**28**_____ shared equally with _____**6**_____ pirates equals _____**4**_____ per pirate with _____**4**_____ leftover.

Equal Share Charades

Materials needed:

   1. Equal Share Charade Cards

Directions:

   1. **Player 1** picks a charade card.

   2. Using counters, **Player 1** "acts out" the problem.

   3. **Player 2** watches carefully to try to figure it out what problem player 1 is solving.

   4. **Player 2** records their guess in the equal groups sentence below.

   5. If player 2 is correct, then the players switch roles.

   6. If player 2 is incorrect, player 1 has 1 more chance to act out the problem.

Answers will vary

1.) _____ shared equally with _____ friends equals _____ per friend with _____ leftover.

2.) _____ shared equally with _____ friends equals _____ per friend with _____ leftover.

3.) _____ shared equally with _____ friends equals _____ per friend with _____ leftover.

☆ESTAR
INTERVENTION

13

Use the multiplication table to solve.

1.) 6
× 8

2.) 7
× 9

3.) 4
× 6

4.) Circle the factors in the multiplication sentence.

$$5 \times 7 = 35$$

Use counters to solve.

5.) 5 students equally shared 14 pencils. How many pencils did each student get? (1 point per space)

_____ shared equally with _____ students equals _____ per student with _____ leftover.

6.) 2 rats were given 12 pieces of cheese. To the scientist's amazement, the rats shared the cheese equally. How many pieces of cheese did each rat eat? (1 point per space)

_____ shared equally with _____ rats equals _____ per rat with _____ leftover.

Circle the best answer.

7.) 4 friends found 18 silver coins. Which way shows the friends sharing equally?

    A 18 shared equally with 4 friends equals 3 per friend with 6 leftover.

    B 18 shared equally with 4 friends equals 4 per friend with 2 leftover.

    C 4 shared equally with 18 friends equals 4 per friend with 2 leftover.

    D 18 shared equally with 4 friends equals 5 per friend with 0 leftover.

STOP

Use the multiplication table to solve.

1.) 6
     × 8
     48

2.) 7
     × 9
     63

3.) 4
     × 6
     24

4.) Circle the factors in the multiplication sentence.

(5) × (7) = 35

Use counters to solve.

5.) 5 students equally shared 14 pencils. How many pencils did each student get? (1 point per space)

____**14**____ shared equally with ____**5**____ students equals ____**2**____ per student with ____**4**____ leftover.

6.) 2 rats were given 12 pieces of cheese. To the scientist's amazement, the rats shared the cheese equally. How many pieces of cheese did each rat eat? (1 point per space)

____**12**____ shared equally with ____**2**____ rats equals ____**6**____ per rat with ____**0**____ leftover.

Circle the best answer.

7.) 4 friends found 18 silver coins. Which way shows the friends sharing equally?

   A 18 shared equally with 4 friends equals 3 per friend with 6 leftover.
   (**B**) 18 shared equally with 4 friends equals 4 per friend with 2 leftover.
   C 4 shared equally with 18 friends equals 4 per friend with 2 leftover.
   D 18 shared equally with 4 friends equals 5 per friend with 0 leftover.

STOP

Equal Share

24

_____ divided equally into _____ groups

equals _____ with _____ leftover.

Equal Share

24		
?	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●

_____**24**_____ divided equally into _____**3**_____ groups

equals _____**8**_____ with _____**0**_____ leftover.

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INTERVENTION

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STOP
105

Use counters to solve the division problem. Draw dots in the strip diagram to represent the counters.

1.) 16 divided equally into 4 groups equals _____.

16			

?			

2.) Isabella made treats for her teachers as a thank you. She made 28 treats. She has 7 teachers she wants to give treats to. If she gives each teacher the same amount, how many will each teacher receive?

28 divided equally into 7 groups equals _____.

_____						

?						

3.) 24 divided equally into 6 groups equals _____.

_____

Is this reasonable? Look at each problem and decide if it is reasonable. Write yes or no on the line and explain why or why not. Draw a strip diagram or use counters if needed.

4.) 36 divided equally into 4 groups equals 19. _____

5.) 18 divided equally into 9 groups equals 2. _____

STOP

Use counters to solve the division problem. Draw dots in the strip diagram to represent the counters.

1.) 16 divided equally into 4 groups equals ____4____.
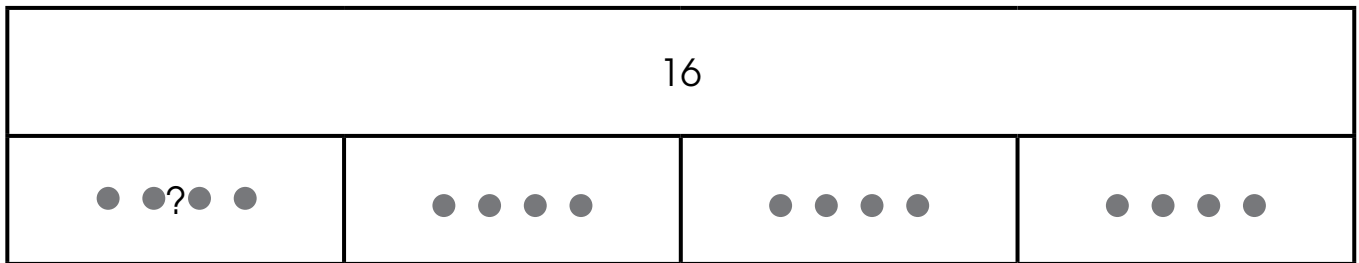
16			
● ●?● ●	● ● ● ●	● ● ● ●	● ● ● ●

2.) Isabella made treats for her teachers as a thank you. She made 28 treats. She has 7 teachers she wants to give treats to. If she gives each teacher the same amount, how many will each teacher receive?

28 divided equally into 7 groups equals ____4____.

__28__						
● ●?● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●
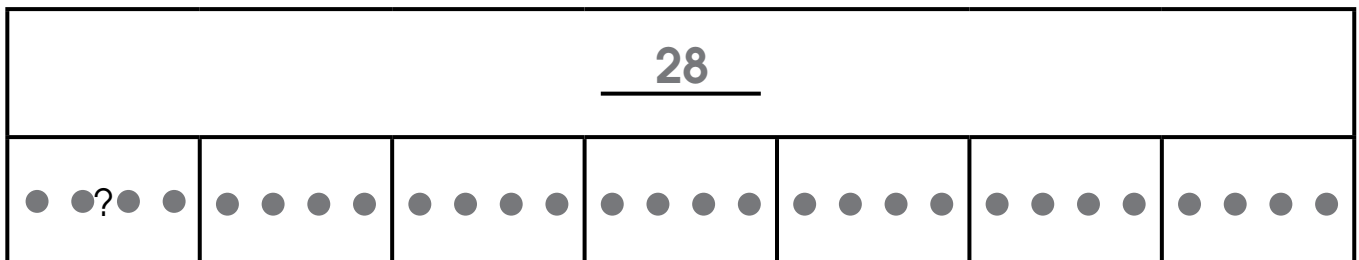
3.) 24 divided equally into 6 groups equals ____4____.
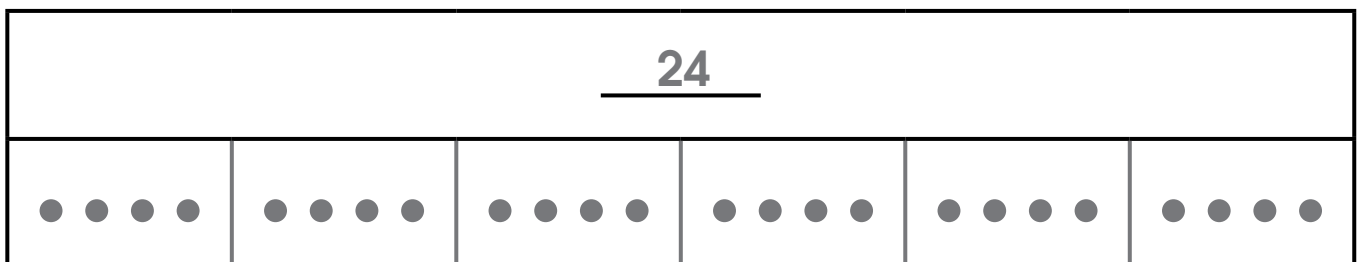
__24__					
● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●

Is this reasonable? Look at each problem and decide if it is reasonable. Write yes or no on the line and explain why or why not. Draw a strip diagram or use counters if needed.

4.) 36 divided equally into 4 groups equals 19. ___**No**___

Answers for why or why not will vary

5.) 18 divided equally into 9 groups equals 2. ___**Yes**___

Answers for why or why not will vary
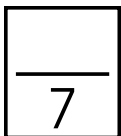
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The University of Texas at Austin ©2012 University of Texas System/Texas Education Agency

☆ESTAR
INTERVENTION

STOP
109

7

Use the multiplication table to solve.

1.) 3
    × 8

2.) 4
    × 7

3.) 6
    × 5

Use counters to solve the division problem. Draw dots in the strip diagram to represent the counters.

4.) 12 divided equally into 2 groups equals _____.

12	
?	

5.) 9 divided equally into 3 groups equals _____.

_____		
?		

6.) 10 divided equally into 5 groups equals _____.

_____

Choose the most reasonable answer.

7.) Carlos has 11 stickers. He wants to give his 2 younger brothers the same amount. How many stickers should his brothers each receive?

    A 22 stickers each

    B 13 stickers each

    C 9 stickers each

    D 5 stickers each

ESTAR
INTERVENTION

10

Use the multiplication table to solve.

1.)   3
    × 8
    24

2.)   4
    × 7
    28

3.)   6
    × 5
    30

Use counters to solve the division problem. Draw dots in the strip diagram to represent the counters.

4.) 12 divided equally into 2 groups equals _____**6**_____.

12	
• • • • • •	• • • • • •

5.) 9 divided equally into 3 groups equals _____**3**_____.

9		
• • •	• • •	• • •

6.) 10 divided equally into 5 groups equals _____**2**_____.

10				
• •	• •	• •	• •	• •

Choose the most reasonable answer.

7.) Carlos has 11 stickers. He wants to give his 2 younger brothers the same amount. How many stickers should his brothers each receive?

A 22 stickers each

B 13 stickers each

C 9 stickers each

D 5 stickers each

Ms. Louis has 20 students in her class. She is planning a group project for her class and wants each group to have 4 students. How many groups will she be able to break her class into? Will there be any students leftover?

Divide 20 counters into groups of 1.

1.) How many groups do you have? _____

Divide 20 counters into groups of 2.

2.) How many groups do you have? _____

3.) How many are leftover? _____

Use #2 and #3 to complete the division sentence.

4.) _____ divided into equal groups of 2 equals _____ with _____ leftover.

Divide 20 counters into groups of 4.

5.) Draw a picture using the strip diagram above of the equal group.

6.) How many groups do you have? _____

7.) How many are leftover? _____

Use #5 to complete the division sentence.

8.) _____ divided into equal groups of _____ equals _____with _____ leftover.

Answer the following questions using the information you gathered on the first practice sheet.

1.) Division is related to repeated _____ as

multiplication is related to repeated _____.

2.) Explain how division and subtration are related.

_____

_____

_____

_____

3.) What happens to the number of groups when more counters are in each group? _____

_____

4.) How does the amount being divided compare to the answer, the number of groups made? _____

_____

5.) In your own words, explain division or describe an example of division.

_____

_____

_____

STOP

Ms. Louis has 20 students in her class. She is planning a group project for her class and wants each group to have 4 students. How many groups will she be able to break her class into? Will there be any students leftover?

Divide 20 counters into groups of 1.

1.) How many groups do you have? ___**20**___

Divide 20 counters into groups of 2.

2.) How many groups do you have? ___**10**___

3.) How many are leftover? ___**0**___

Use #2 and #3 to complete the division sentence.

4.) ___**20**___ divided into equal groups of 2 equals ___**10**___ with ___**0**___ leftover.

20				
4	4	4	4	4

Divide 20 counters into groups of 4.

5.) Draw a picture using the strip diagram above of the equal group.

6.) How many groups do you have? ___**5**___

7.) How many are leftover? ___**0**___

Use #5 to complete the division sentence.

8.) ___**20**___ divided into equal groups of ___**4**___ equals ___**5**___ with ___**0**___ leftover.

Answer the following questions using the information you gathered from Practice Sheet #1.

1.) Division is related to repeated __subtraction__ as multiplication is related to repeated __addition__.

2.) Explain how division and subtration are related.

__Answers will vary, but should include the subtraction__

__of equal sized groups__

3.) What happens to the number of groups when more counters are in each group? __Does not change the number of groups__

4.) How does the amount being divided compare to the answer, the number of groups made? __the amount being divided is more than__

__the number of groups__

5.) In your own words, explain division or describe an example of division.

__Answers will vary__

STOP

$$\frac{}{7}$$

Use the strip diagram to complete the division sentence.

1.)

15		

_____ divided equally into 3 groups equals _____.

2.) 6 students equally shared 13 pencils.

_____ shared equally with _____ students equals _____ per student with _____ leftover.

3.) When you divide the whole into more groups, what happens to the amount in each group?

    A The amount in each group is less.

    B The amount in each group is more.

    C The amount in each group doesn't change.

    D The amount in each group only changes the whole.

Divide 10 counters into groups of 3.

4.) Draw a picture of the equal group.

5.) How many groups do you have? _____

6.) How many are leftover? _____

7.) Division is related to repeated _____ .

STOP

118

10

Use the strip diagram to complete the division sentence.

1.)

15		
5	5	5
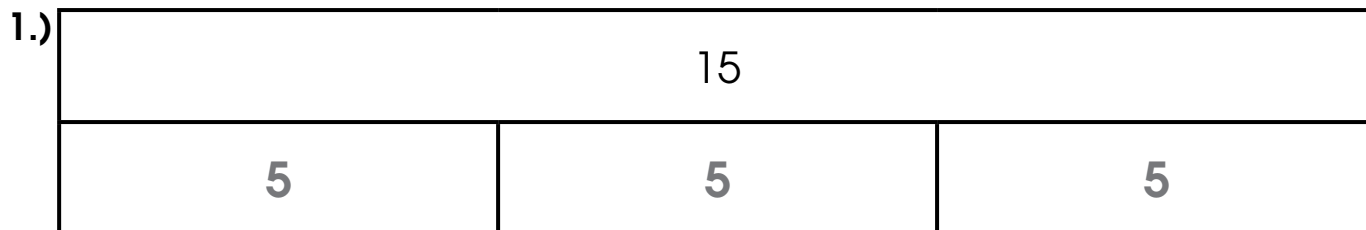
___15___ divided equally into 3 groups equals ___5___.

2.) 6 students equally shared 13 pencils.

___13___ shared equally with ___6___ students equals ___2___ per student with ___1___ leftover.

3.) When you divide the whole into more groups, what happens to the amount in each group?

(A) The amount in each group is less.

B The amount in each group is more.

C The amount in each group doesn't change.

D The amount in each group only changes the whole.

Divide 10 counters into groups of 3.

4.) Draw a picture of the equal group.

10		
3	3	3
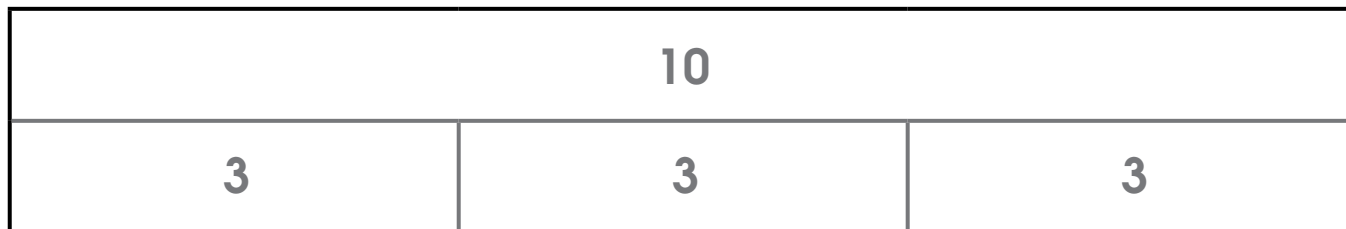
5.) How many groups do you have? ___3___

6.) How many are leftover? ___1___

7.) Division is related to repeated ___subtraction___.

STOP

4 × 9

part = _____

Repeated addition equation: _____

Multiplication equation: _____

4×9

36			
9	9	9	9

part = ___9___ or 4; answer will vary depending on the factor chosen as the part

Repeated addition equation: _____$9 + 9 + 9 + 9 = 36$_____

or $4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 36$

Multiplication equation: _____$4 \times 9 = 36$_____

or $9 \times 4 = 36$

STOP

Workspace

. . . .

Equal groups

STOP

Workspace

· ·

Equal groups

Workspace

```
  30
- 5
  25
- 5
  20
- 5
  15
- 5
  10
- 5
   5
- 5
   0
```

Equal groups

30					
5	5	5	5	5	5

Workspace

$$
\begin{array}{r}
18 \\
-\ 3 \\
\hline
15 \\
-\ 3 \\
\hline
12 \\
-\ 3 \\
\hline
9 \\
-\ 3 \\
\hline
6 \\
-\ 3 \\
\hline
3 \\
-\ 3 \\
\hline
0
\end{array}
$$

Equal groups

18					
3	3	3	3	3	3

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INTERVENTION

Use the strip diagram and repeated subtraction to solve the division problem.

Workspace

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INTERVENTION

Read and solve.

1.) Jalen has 56 baseball cards. His dad bought him plastic pages to keep his cards in so the cards would not get bent. Each page holds 8 cards. How many pages will Jalen need in order to protect all of his baseball cards?

Workspace

_____ pages

Use the strip diagram to complete the equal-groups division sentence.

2.)

42						
6	6	6	6	6	6	6

_____ divided into groups of _____ equals _____ equal groups.

Use the strip diagram to complete the equal-groups division sentence.

3.)

64							
8	8	8	8	8	8	8	8

_____ divided into groups of _____ equals _____ equal groups.

STOP

Use the strip diagram and repeated subtraction to solve the division problem.

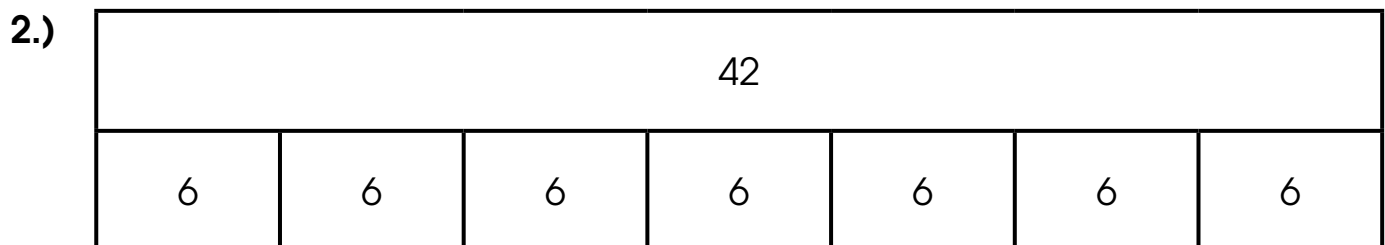Answers will vary depending on problem
given to students

Read and solve.

1.) Jalen has 56 baseball cards. His dad bought him plastic pages to keep his cards in so the cards would not get bent. Each page holds 8 cards. How many pages will Jalen need in order to protect all of his baseball cards?
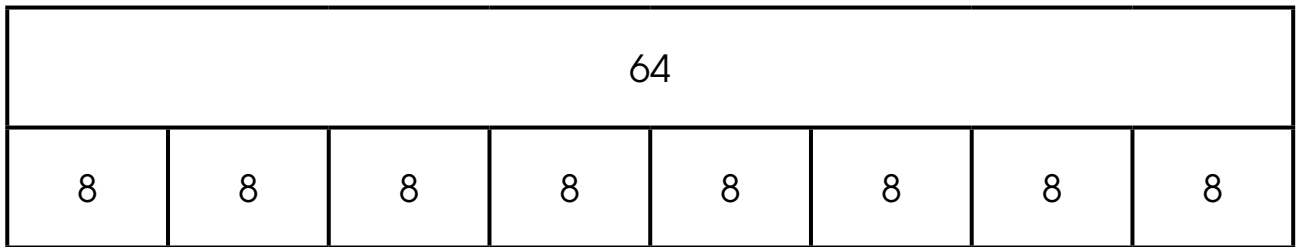
56						
8	8	8	8	8	8	8

_____**7**_____ pages

Workspace

$$
\begin{array}{r}
56 \\
-\ 8 \\
\hline
48 \\
-\ 8 \\
\hline
40 \\
-\ 8 \\
\hline
32 \\
-\ 8 \\
\hline
24 \\
-\ 8 \\
\hline
16 \\
-\ 8 \\
\hline
8 \\
-\ 8 \\
\hline
\end{array}
$$

Use the strip diagram to complete the equal-groups division sentence.
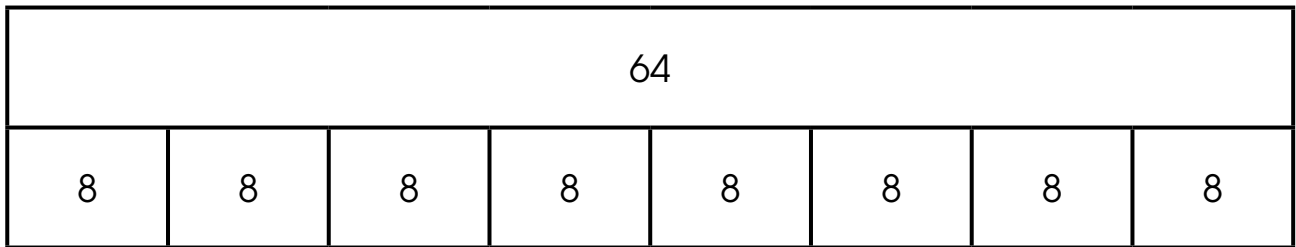
2.)

42						
6	6	6	6	6	6	6

_____**42**_____ divided into groups of _____**6**_____ equals _____**7**_____ equal groups.

Use the strip diagram to complete the equal-groups division sentence.

3.)

64							
8	8	8	8	8	8	8	8

_____**64**_____ divided into groups of _____**8**_____ equals _____**8**_____ equal groups.

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INTERVENTION

STOP
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7
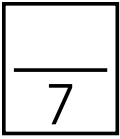
Read each problem and solve.

1.) Divide 36 into groups of 8.

_____ divided into equal groups of _____ equals _____ with _____ leftover.

Draw dots to solve the division problem.

_____

12 divided equally into 4 groups equals _____.

Use the strip diagram and repeated subtraction to solve.

3.) Jarren had 36 bottles in his bottle collection. He decided to put them in groups of 4. How many groups of 4 was Jarren able to make?
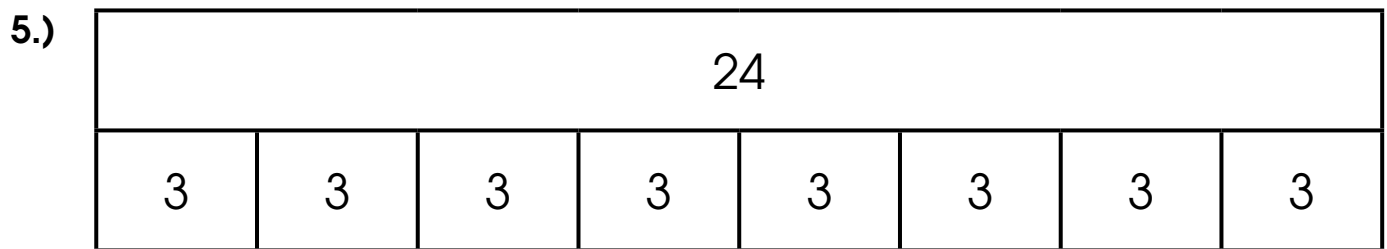
Workspace

_____ groups

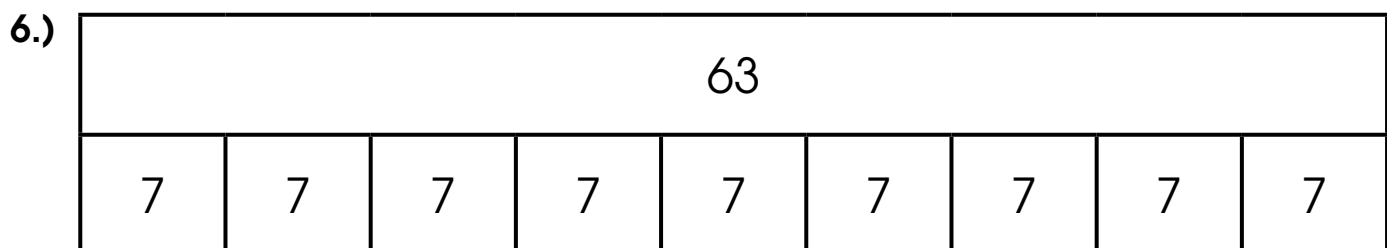**4.)** 25 divided into groups of 5 equals how many groups?

_____ groups

Use the strip diagram to complete the sentence.

5.)

24							
3	3	3	3	3	3	3	3

_____ divided into groups of 3 equals _____ equal groups.

6.)

63								
7	7	7	7	7	7	7	7	7

_____ divided into groups of 7 equals _____ equal

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INTERVENTION

Choose the correct strip diagram.

7.) 45 divided into groups of 9 equals 5 equal groups.

A

45		
15	15	15

C

45				
9	9	9	9	9

B

45								
9	9	9	9	9	9	9	9	9

D

45				
5	5	5	5	5

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Read each problem and solve.

1.) Divide 36 into groups of 8.

_____36_____ divided into equal groups of _____8_____ equals _____4_____ with

_____4_____ leftover.

Draw dots to solve the division problem.

_____12_____

• • •   • • •   • • •   • • •
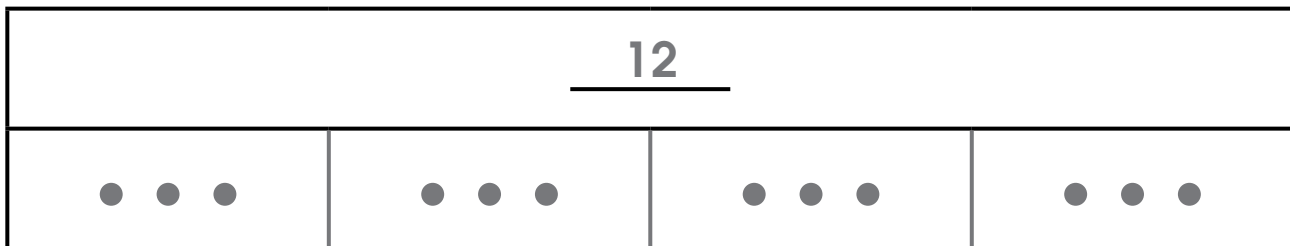
12 divided equally into 4 groups equals _____3_____.

Use the strip diagram and repeated subtraction to solve.

3.) Jarren had 36 bottles in his bottle collection. He decided to put them in groups of 4. How many groups of 4 was Jarren able to make?

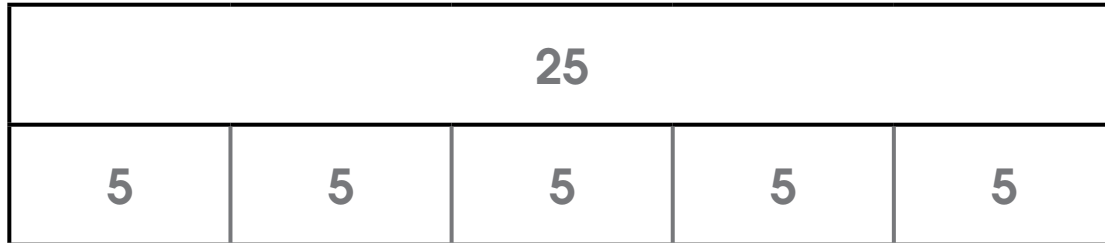| 36								
4	4	4	4	4	4	4	4	4
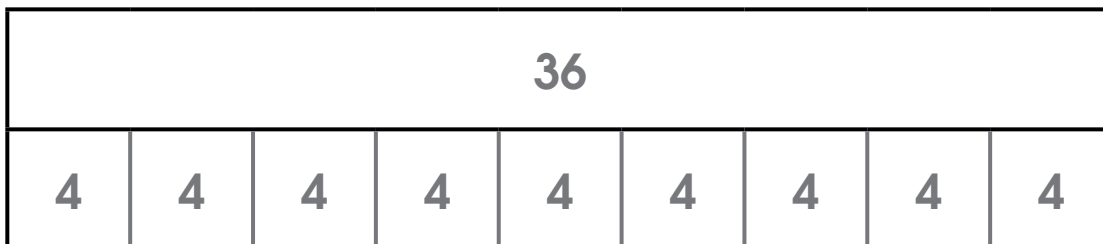
_____9_____ groups

Workspace

$$
\begin{array}{r}
36 \\
-\ 4 \\
\hline
28 \\
-\ 4 \\
\hline
24 \\
-\ 4 \\
\hline
20 \\
-\ 4 \\
\hline
16 \\
-\ 4 \\
\hline
12 \\
-\ 4 \\
\hline
8 \\
-\ 4 \\
\hline
4 \\
-\ 4 \\
\end{array}
$$

4.) 25 divided into groups of 5 equals how many groups?

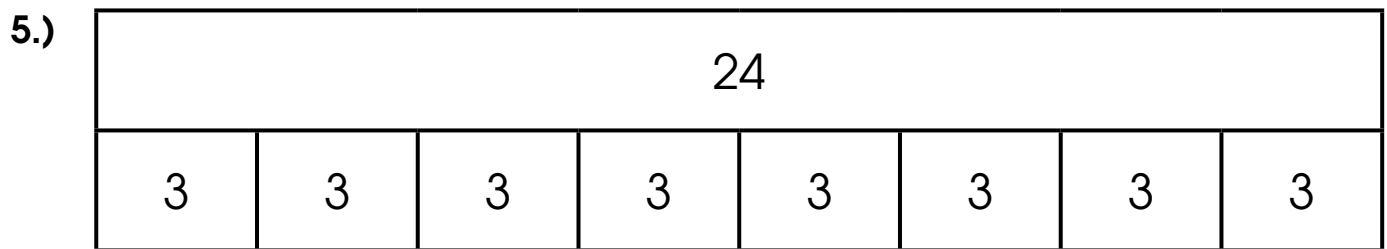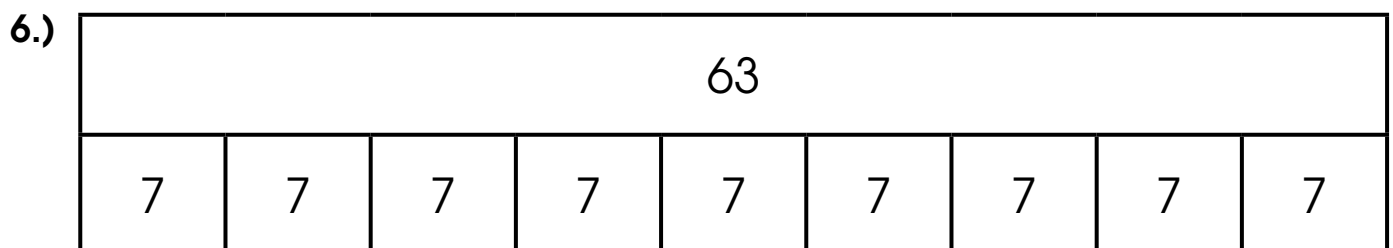| 25				
5	5	5	5	5

_____**5**_____ groups

Workspace

$$
\begin{array}{r}
25 \\
-\ 5 \\
\hline
20 \\
-\ 5 \\
\hline
15 \\
-\ 5 \\
\hline
10 \\
-\ 5 \\
\hline
5 \\
-\ 5 \\
\hline
\end{array}
$$

Use the strip diagram to complete the sentence.

5.)

24							
3	3	3	3	3	3	3	3

____**24**____ divided into groups of 3 equals ____**8**____ equal groups.

6.)

63								
7	7	7	7	7	7	7	7	7

____**63**____ divided into groups of 7 equals ____**9**____ equal groups.

Choose the correct strip diagram.

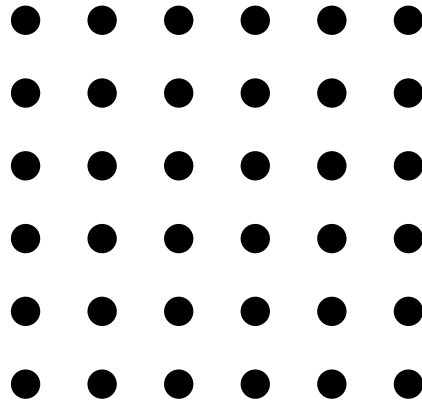**7.)** 45 divided into groups of 9 equals 5 equal groups.

A

45		
15	15	15

C

45				
9	9	9	9	9

B

45								
9	9	9	9	9	9	9	9	9

D

45				
5	5	5	5	5

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_____ groups of _____ equals _____

Write the multiplication equation for the array.

_____ × _____ = _____

Factor   **Factor**   **Product**

Write the division equation from the multiplication equation.

_____ ÷ _____ = _____

Dividend   **Divisor**   **Quotient**

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INTERVENTION
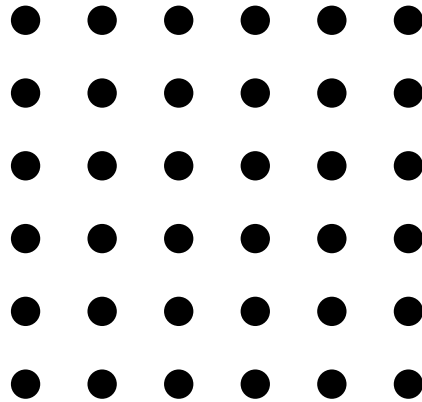
_____6_____ groups of _____6_____ equals _____36_____

Write the multiplication equation for the array.

_____6_____ × _____6_____ = _____36_____

Factor   **Factor**   **Product**

Write the division equation from the multiplication equation.

_____36_____ ÷ _____6_____ = _____6_____

Dividend   **Divisor**   **Quotient**
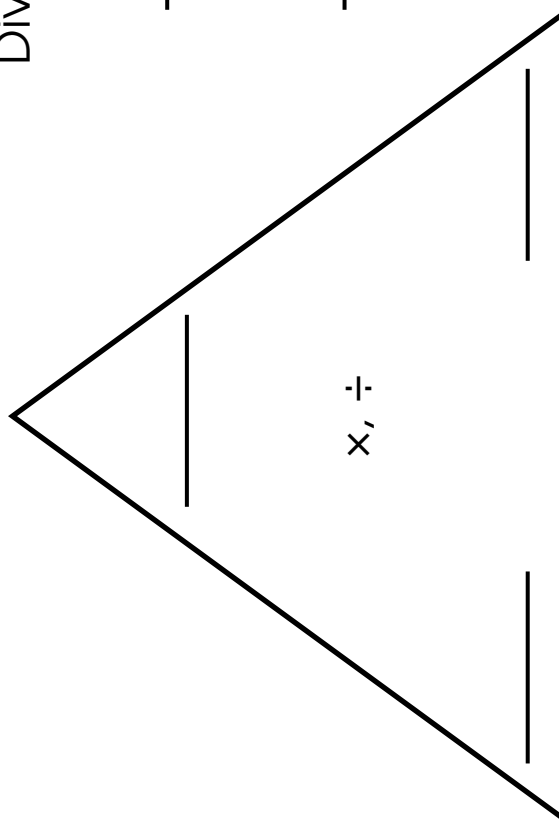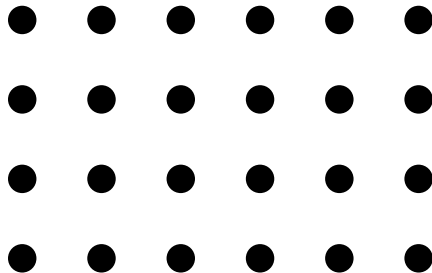
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STOP
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STOP

Multiplication equations:

_____ × _____ = _____

_____ × _____ = _____

Division equations:

_____ ÷ _____ = _____

_____ ÷ _____ = _____

×, ÷

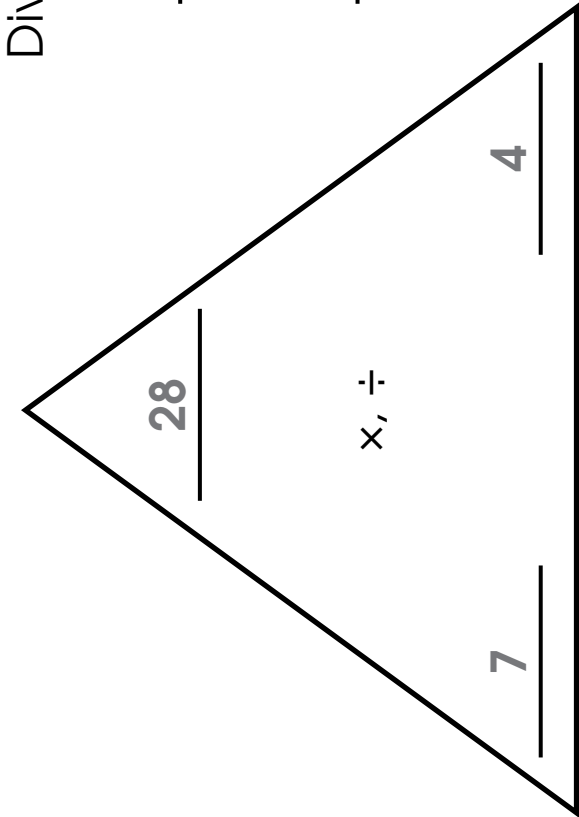☆ESTAR
INTERVENTION

STOP

Multiplication equations:

$$4 \times 7 = 28$$

$$7 \times 4 = 28$$

Division equations:

$$28 \div 7 = 4$$

$$28 \div 4 = 7$$

28

×, ÷

7   4

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×   -|-   STOP

×,
-|-
×

×   -|-

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STOP

$\times$

$\div$

Answers will vary depending on the problems students complete.

$\div$,
$\times$

$\times$

$\div$

$\dfrac{}{9}$

Use the strip diagram to complete the sentence.

1.)

72							
9	9	9	9	9	9	9	9
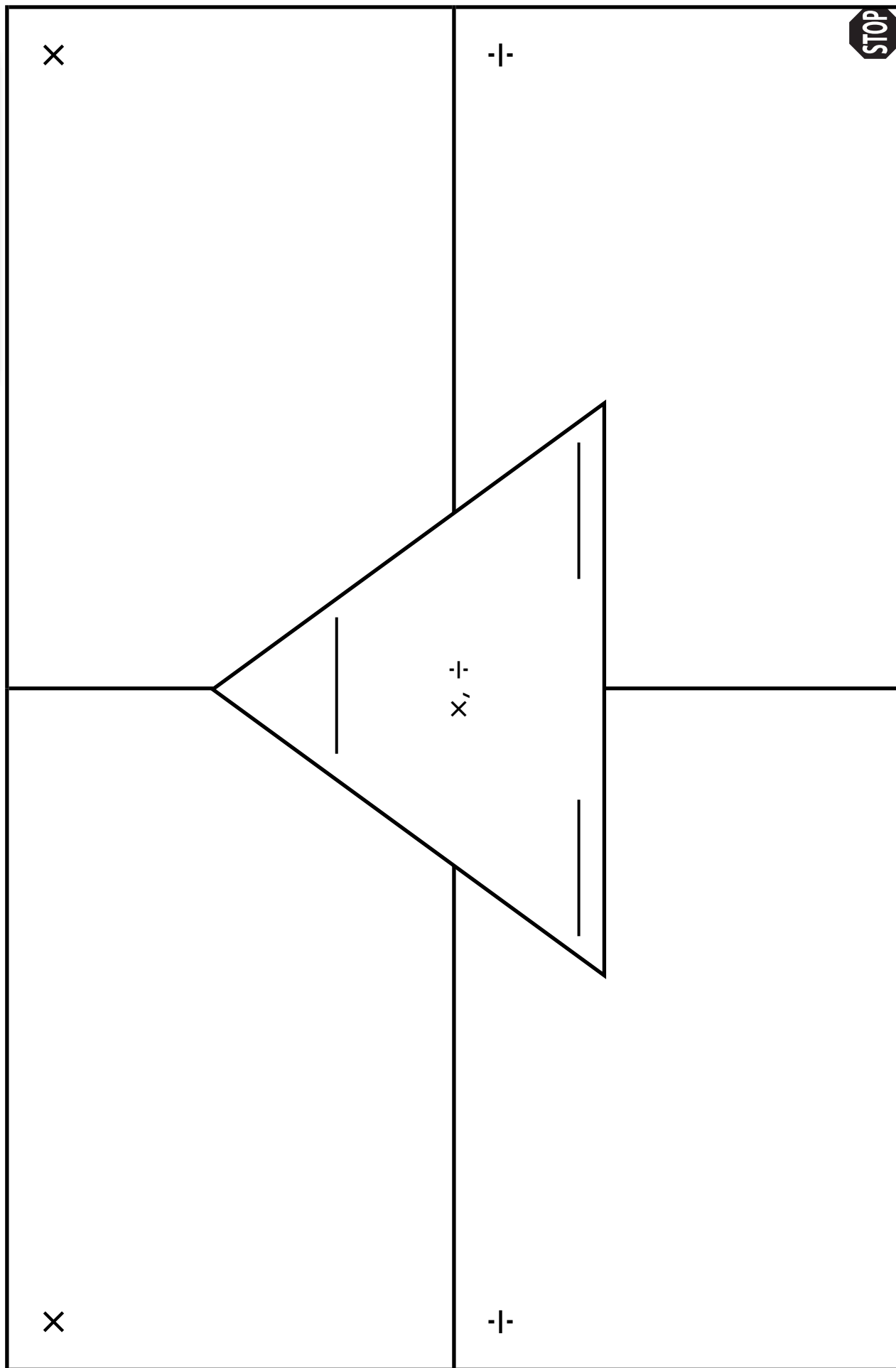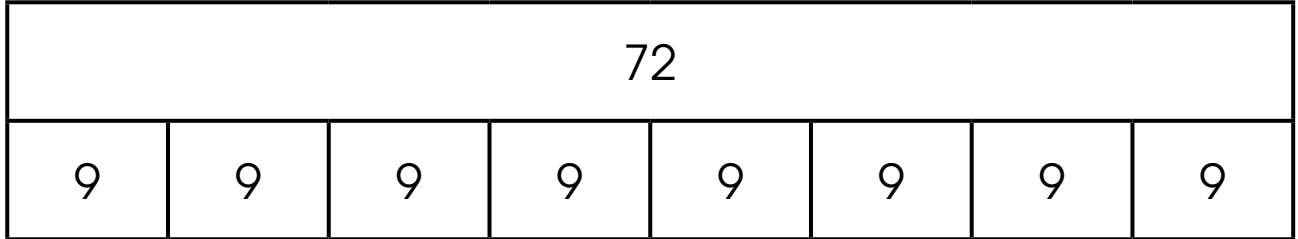
_____ divided into groups of 9 equals _____ equal groups.

Use the strip diagram and repeated subtraction solve.

2.) Divide 56 into groups of 7.
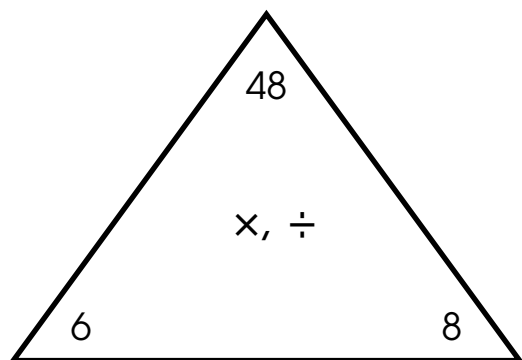
Workspace

_____ groups

Write the 4 equations for the number family.

3.) _____
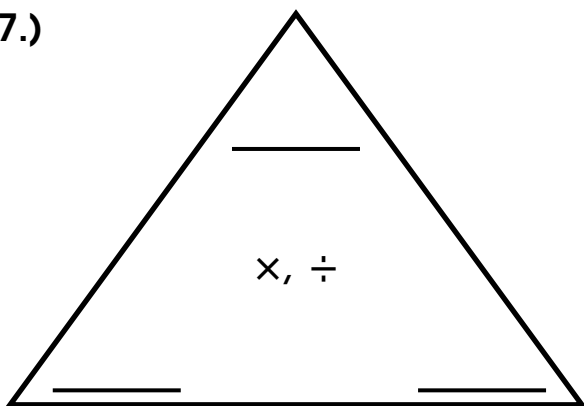
4.) _____

5.) _____

6.) _____

Complete the number family triangle from the given number sentences.

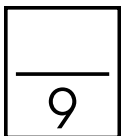$5 \times 7 = 35$ $35 \div 5 = 7$

7.)

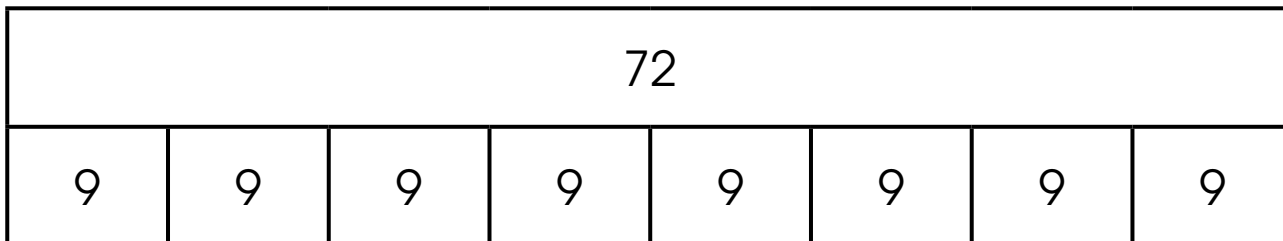Write another multiplication equation for this fact family.

8.) _____ × _____ = _____

Write another division equation for this fact family.

9.) _____ ÷ _____ = _____

9

Use the strip diagram to complete the sentence.

1.)

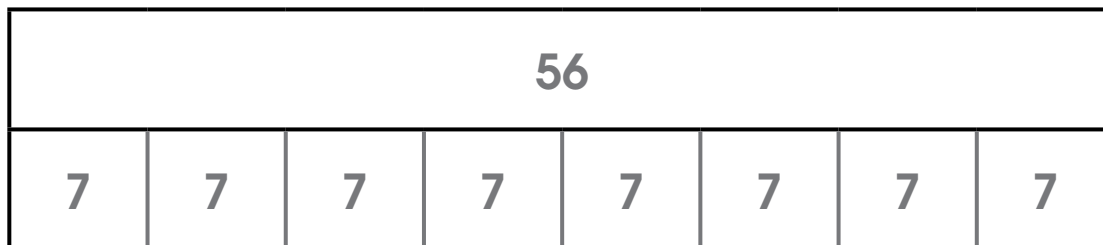| 72							
9	9	9	9	9	9	9	9

___72___ divided into groups of 9 equals ___8___ equal groups.

Use the strip diagram and repeated subtraction solve.
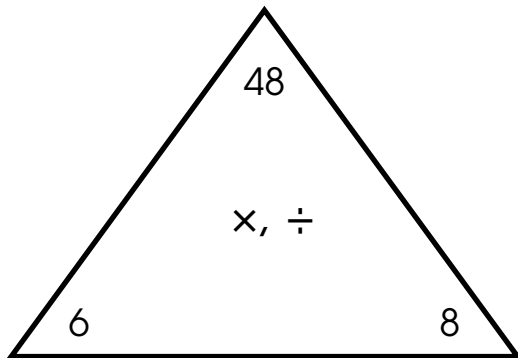
2.) Divide 56 into groups of 7.

56							
7	7	7	7	7	7	7	7

___8___ groups

Workspace

$$\begin{array}{r} 56 \\ -\ 7 \\ \hline 49 \\ -\ 7 \\ \hline 42 \\ -\ 7 \\ \hline 36 \\ -\ 7 \\ \hline 28 \\ -\ 7 \\ \hline 21 \\ -\ 7 \\ \hline 14 \\ -\ 7 \\ \hline 7 \\ -\ 7 \end{array}$$

Write the 4 equations for the number family.

48

×, ÷

6   8

3.) _____ 6 × 8 = 48 _____

4.) _____ 8 × 6 = 48 _____

5.) _____ 48 ÷ 6 = 8 _____

6.) _____ 48 ÷ 8 = 6 _____

Complete the number family triangle from the given number sentences.

$5 × 7 = 35$ $35 ÷ 5 = 7$

7.)

35

×, ÷

5   7
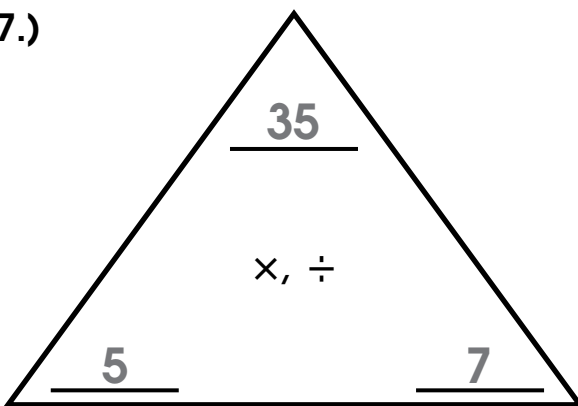
Write another multiplication equation for this fact family.
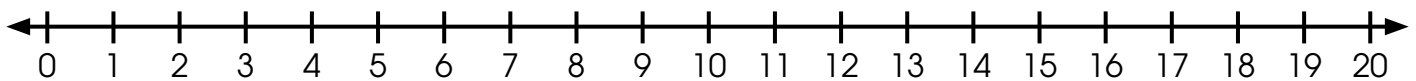
8.) __7__ × __5__ = __35__

Write another division equation for this fact family.

9.) __35__ ÷ __7__ = __5__

STOP

There are 12 desks and 1 pencil on each desk. How many pencils are there?

_____ equal groups of _____

_____ × _____

There are _____ pencils.

Write your own problem using the Identity Property.

_____

Write the corresponding multiplication equation.

_____
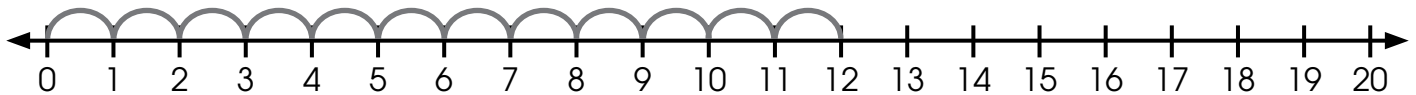
Write 2 division equations in this number family.

_____

_____

STOP

There are 12 desks and 1 pencil on each desk. How many pencils are there?

_____**12**_____ equal groups of _____**1**_____

_____**12**_____ × _____**1**_____

There are _____**12**_____ pencils.

Write your own problem using the Identity Property.

answers will vary

_____

Write the corresponding multiplication equation.

_____

Write 2 division equations in this number family.

_____

_____

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STOP
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1.) Draw an equal-groups model using dots or circles to solve 9 × 0.

_____ equal groups of _____

Write the repeated addition equation.

_____

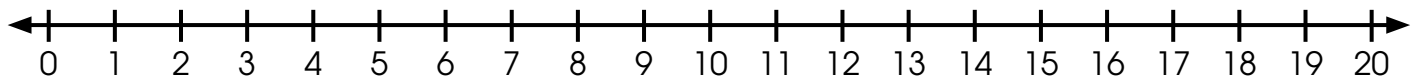Solve 9 × 10 = _____

2.) Destiny has 15 folders with 1 worksheet in each folder. How many worksheets are there?

Write the multiplication sentence. _____

Use the number line to solve.

```
◄─┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──►
  0  1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17 18 19 20
```

Destiny has _____ worksheets.

Multiplication Table

✖	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

1.) Draw an equal-groups model using dots or circles to solve 9 × 0.

○ ○ ○ ○ ○

○ ○ ○ ○

_____**9**_____ equal groups of _____**0**_____
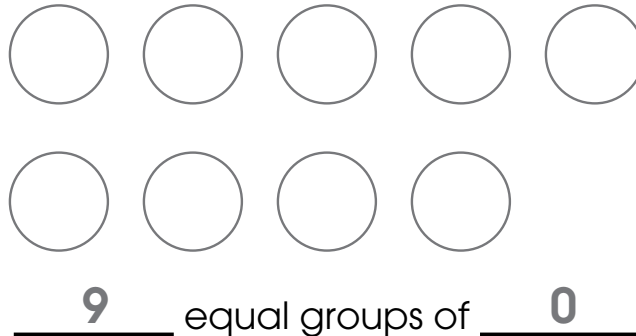
Write the repeated addition equation.

$$0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0$$

Solve 9 × 0 = _____**0**_____

2.) Destiny has 15 folders with 1 worksheet in each folder. How many worksheets are there?

Write the multiplication sentence. _____**15 × 1**_____

Use the number line to solve.

× 1

```
◄─┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──►
  0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
```
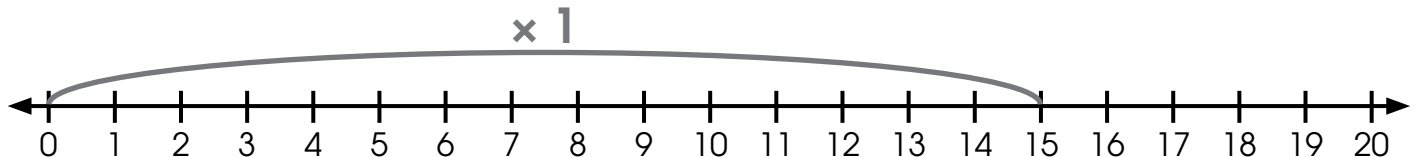
Destiny has _____**15**_____ worksheets.

Multiplication Table

✕	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

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STOP
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12

Write the number family equations using 32, 8, and 4.

1.) _____ × _____ = _____

2.) _____ × _____ = _____

3.) _____ ÷ _____ = _____

4.) _____ ÷ _____ = _____

5.) Which array best represents 6 × 6?

A • • • • • • B • • • • C • • • • • • D • •
  • • • • • •   • • • •   • • • • • •   • •
  • • • • • •   • • • •   • •
  • • • • • •   • • • •   • •
  • • • • • •   • • • •   • •
  • • • • • •   • • • •   • •
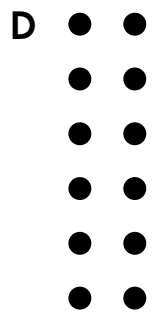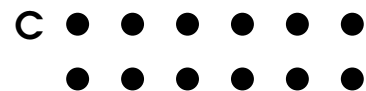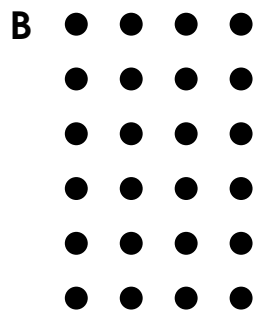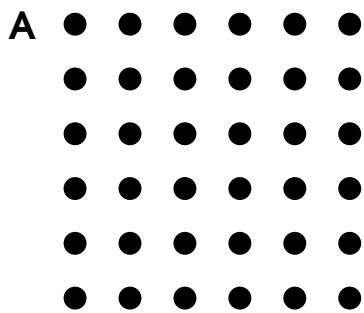
6.) Which equation does not belong to the number family?

A 7 × 8 = 56   **B** 7 ÷ 56 = 7   **C** 56 ÷ 8 = 7   **D** 8 × 7 = 56

7.) _____ × 9 = 0

8.) _____ = 10 × 1

9.) Write your own problem using the Zero Property of Multiplication.

_____

10.) Write the corresponding multiplication equation from problem 9.

_____

11.) Write your own problem using the Identity Property of Multiplication.

_____

12.) Write 2 division equations from the number family in number 11.

_____

_____

STOP

12

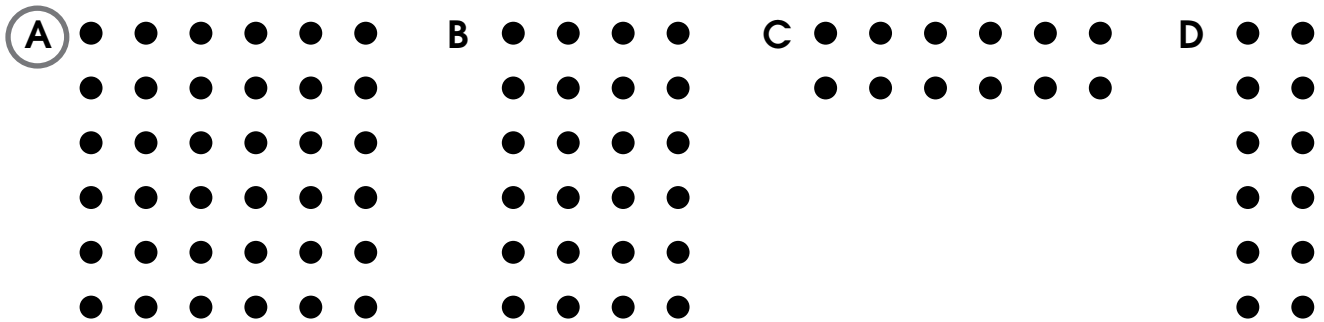Write the number family equations using 32, 8, and 4.

1.) __8__ × __4__ = __32__   2.) __4__ × __8__ = __32__

3.) __32__ ÷ __4__ = __8__   4.) __32__ ÷ __8__ = __4__

5.) Which array best represents 6 × 6?

6.) Which equation does not belong to the number family?

    A 7 × 8 = 56   **B** 7 ÷ 56 = 7   **C** 56 ÷ 8 = 7   **D** 8 × 7 = 56

7.) __0__ × 9 = 0

8.) __10__ = 10 × 1

9.) Write your own problem using the Zero Property of Multiplication.

__answers will vary__

10.) Write the corresponding multiplication equation from problem 9.

__answers will vary__

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11.) Write your own problem using the Identity Property of Multiplication.

<u>   answers will vary   </u>

12.) Write 2 division equations from the number family in number 11.

<u>   answers will vary   </u>

<u>   </u>

Write the multiplication equation for the area model.

____ × ____ = _____

The area is ____ square units.

Write the corresponding multiplication equation for the area model.

____ × ____ = _____

5 × 3 = ____

8 × 5 = ____

STOP

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$$10 \times 2 = \underline{\hspace{1.5cm}}$$
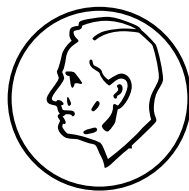
Write the corresponding multiplication equation.

$$\underline{\hspace{1.5cm}} \times \underline{\hspace{1.5cm}} = \underline{\hspace{1.5cm}}$$

Write the 2 division equations.

_____

_____

$$10 \times 3 = \underline{\hspace{1.5cm}}$$

$$7 \times 10 = \underline{\hspace{1.5cm}}$$

Write the multiplication equation for the area model.

__5__ × __7__ = __35__

The area is __35__ square units.

Write the corresponding multiplication equation for the area model.

__5__ × __7__ = __35__

5 × 3 = __15__

8 × 5 = __40__

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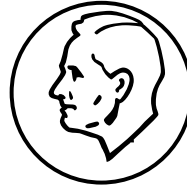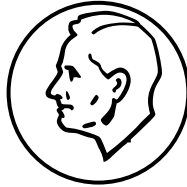
$$10 \times 2 = \underline{\quad 20 \quad}$$

Write the corresponding multiplication equation.

$$\underline{\quad 2 \quad} \times \underline{\quad 10 \quad} = \underline{\quad 20 \quad}$$

Write the 2 division equations.

$$20 \div 10 = 2$$

$$20 \div 2 = 10$$

$$10 \times 3 = \underline{\quad 30 \quad}$$

$$7 \times 10 = \underline{\quad 70 \quad}$$

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1.) Draw an array that represents 11 × 2 and solve.

2.) Look at the area model below.

Write the multiplication equation to find the area of the shaded model and solve. _____

3.)

Write the multiplication equation to find the total amount of money and solve. _____

1.) Draw an array that represents 11 × 2 and solve.

□ □
□ □
□ □
□ □
□ □
□ □   **or**   □ □ □ □ □ □ □ □ □ □
□ □   □ □ □ □ □ □ □ □ □ □
□ □
□ □
□ □

2.) Look at the area model below.
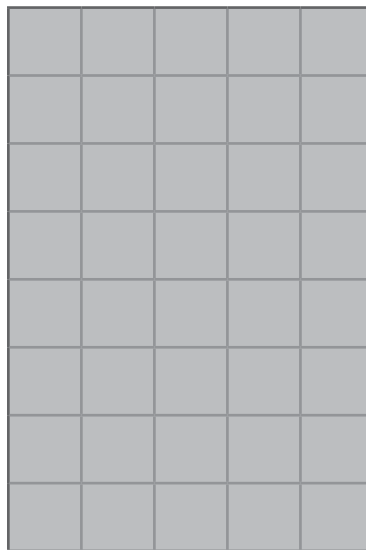
Write the multiplication equation to find the area of the shaded model and solve. ___**5 × 8 = 40**___

3.)

Write the multiplication equation to find the total amount of money and solve. ___**10 × 6 = 60**___
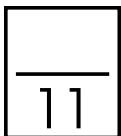
STOP

11

Fill in the blank for each problem.

1.) _____ = 12 × 1

2.) _____ × 48 = 0

3.) 0 × 25 = _____

4.) _____ = 99 × 1

5.) Write the multiplication and division equations using 70, 10, and 7.

_____   _____

_____   _____

6.) Look at the shaded area model below.

Which expression can be used to find the area of the shaded model?

A 4 × 6   **B** 5 × 7   **C** 5 × 5   **D** 4 × 5

7.) Anna has 8 ten-dollar bills. How much money does Anna have? Write a multiplication equation and solve.

_____

Anna has $ _____ .

8.) Which of the following makes the number sentence true?

$$2 \times \boxed{} = 24$$

  A 12
  B 11
  C 10
  D 13

9.) _____ × 5 = 50

10.) 45 = 9 × _____

11.) 9 × _____ = 18

STOP

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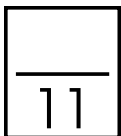
Fill in the blank for each problem.

1.) __12__ = 12 × 1

2.) __0__ × 48 = 0

3.) 0 × 25 = __0__

4.) __99__ = 99 × 1

5.) Write the multiplication and division equations using 70, 10, and 7.

__10 × 7 = 70__

__70 ÷ 10 = 7__

__7 × 10 = 70__

__70 ÷ 7 = 10__

6.) Look at the shaded area model below.
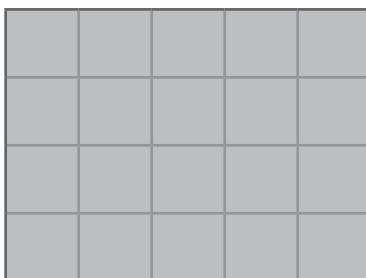
Which expression can be used to find the area of the shaded model?

A 4 × 6   **B** 5 × 7   **C** 5 × 5   **(D)** 4 × 5

7.) Anna has 8 ten-dollar bills. How much money does Anna have? Write a multiplication equation and solve.

__8 × 10 = 80 or 10 × 8 = 80__

Anna has $ __80__ .

8.) Which of the following makes the number sentence true?

$$2 \times \boxed{} = 24$$

A 12
B 11
C 10
D 13

9.) __10__ × 5 = 50

10.) 45 = 9 × __5__

11.) 9 × __2__ = 18

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9 × 4

(_____ – _____) × _____

(10 × 4) – (1 × 4)

_____ – _____ = _____

so 9 × 4 = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

9 × 6

Step 1.) Think of 9 as 10 – 1.

Step 2.) Multiply 10 and the other factor.

Step 3.) Subtract the other factor.

___ × ___ = ___

–
___ ___

so 9 × 6 = ___

___ × ___ = ___

___ × ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___

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STOP
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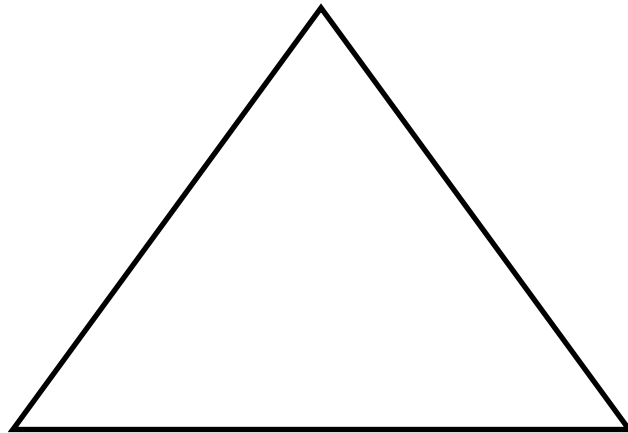
9 × 4

(__10__ – __1__) × __4__

(10 × 4) – (1 × 4)

__40__ – __4__ = __36__

so 9 × 4 = __36__

__4__ × __9__ = __36__

__36__ ÷ __9__ = __4__

__36__ ÷ __4__ = __9__

9 × 6

Step 1.) Think of 9 as 10 – 1.

Step 2.) Multiply 10 and the other factor.

Step 3.) Subtract the other factor.

$$\underline{10} \times \underline{6} = \underline{60}$$
$$- \ \underline{6}$$
$$\underline{}$$

so 9 × 6 = $\underline{54}$
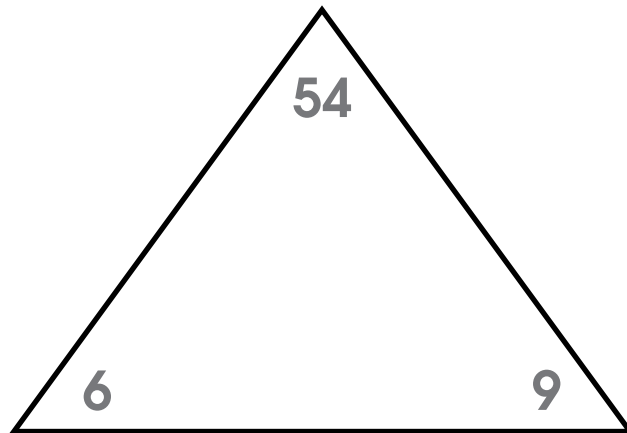
$$\underline{6} \times \underline{9} = \underline{54}$$

$$\underline{9} \times \underline{6} = \underline{54}$$

$$\underline{54} \div \underline{6} = \underline{9}$$

$$\underline{54} \div \underline{9} = \underline{6}$$

Fill in the blanks.

Word Bank				
multiply	step	factor	subtract	10 – 1

Make Ten Subtract the Factor Strategy:

Step 1.) Think of 9 as _____.

Step 2.) _____ 10 and the other _____.

Step 3.) _____ the other factor.

Use the Make Ten Subtract the Factor Strategy to solve.

1.)   7 × 9

7 × _____ = _____

        − _____

    _____

7 × 9 = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

2.)   9 × 9

_____ × 10 = _____

        − _____

    _____

9 × 9 = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

3.)   9   ×   3

_____ × _____ = _____

           − _____
           _____

   9   ×   3   = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

4.)   8   ×   9

_____ × _____ = _____

           − _____
           _____

   8   ×   9   = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

Solve using the Make Ten Subtract the Factor and 1 other way.

5.) Mrs. King puts her class into teams. Each team has 4 students. There are 9 different teams. How many students are in Mrs. King's class?

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Fill in the blanks.

Word Bank				
multiply	step	factor	subtract	10 – 1

Make Ten Subtract the Factor Strategy:

Step 1.) Think of 9 as _____**10 – 1**_____ .

Step 2.) _____**multiply**_____ 10 and the other _____**factor**_____ .

Step 3.) _____**subtract**_____ the other factor.

Use the Make Ten Subtract the Factor Strategy to solve.

1.) 7 × 9

   7 × **10** = **70**
          – **7**
       _____

   7 × 9 = **63**
   9 × **7** = **63**
   63 ÷ **9** = **7**
   63 ÷ **7** = **9**

2.) 9 × 9

   9 × 10 = **90**
          – **9**
       _____

   9 × 9 = **81**
   9 × **9** = **81**
   81 ÷ **9** = **9**
   81 ÷ **9** = **9**

3.)   9   ×   3

__10__ × __3__ = __30__
                      − __3__

  9   ×   3   = __27__
__3__ × __9__ = __27__
__27__ ÷ __9__ = __3__
__27__ ÷ __3__ = __9__

4.)   8   ×   9

__8__ × __10__ = __80__
                       − __8__

  8   ×   9   = __72__
__9__ × __8__ = __72__
__72__ ÷ __9__ = __8__
__72__ ÷ __8__ = __9__

Solve using the Make Ten Subtract the Factor and 1 other way.

5.) Mrs. King puts her class into teams. Each team has 4 students. There are 9 different teams. How many students are in Mrs. King's class?

4   ×   9

4   ×   10   =   40
              −   4

4   ×   9   =   36
9   ×   4   =   36
36   ÷   4   =   9
36   ÷   9   =   4

STOP
175

10

Solve each problem.

1.) 0 × 4 = _____

2.)   8
       × 5
      _____

3.)   5
       × 6
      _____

4.) 2 × 6 = _____

5.)   9 × 6

       _____ × 6 = _____

                − _____
              _____

        9 × 6 = _____

6.) 54 ÷ 6 = _____

7.)   8 × 9

       _____ × _____ = _____

                − _____
              _____

        8 × 9 = _____

8.) 72 ÷ _____ = 9

9.) Draw a line to Match the step number of the Make Ten Subtract the factor.

Think of 9 as 10 − 1. ●   ● Step 3

Multiply 10 and the
other factor. ●   ● Step 1

Subtract the other
factor. ●   ● Step 2

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10.) Kaylee wrote that 9 × 9 = 90. What step did Kaylee forget to do in solving 9 × 9 ?

    A None, that is the correct answer.

    B She forgot to subtract the factor.

    C She didn't think of 9 as 10 − 1.

    D She didn't multiply 9 to 10.

Solve each problem.

1.) 0 × 4 = __0__

2.) 8
   × 5
   40

3.) 5
  × 6
  30

4.) 2 × 6 = __12__

5.)   9 × 6
  __10__ × 6 = __60__
          − __6__
    9 × 6 = __54__

6.) 54 ÷ 6 = __9__

7.)   8 × 9
  __10__ × __8__ = __80__
          − __8__
    8 × 9 = __72__

8.) 72 ÷ 9 = __8__

9.) Draw a line to Match the step number of the Make Ten Subtract the factor.

Think of 9 as 10 – 1. ●   ● Step 3

Multiply 10 and the other factor. ●   ● Step 1

Subtract the other factor. ●   ● Step 2

10.) Kaylee wrote that 9 × 9 = 90. What step did Kaylee forget to do in solving 9 × 9 ?

    A None, that is the correct answer.

    B She forgot to subtract the factor.

    C She didn't think of 9 as 10 – 1.

    D She didn't multiply 9 to 10.

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6 × 8

([ ] × _____) + ([ ] × _____)

_____ + _____ = _____

6 × 8 = _____

Number family: _____, _____, _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

STOP
180

$$6 \times 6$$

$$(\boxed{} \times \underline{}) + (\boxed{} \times \underline{})$$

$$\underline{} + \underline{} = \underline{}$$

$$\underline{} = 6 \times 6$$

Number family: _____, _____, _____

$$\underline{} \div \underline{} = \underline{}$$

STOP
181

6 × 8

(1 × 8) + (5 × 8)

8 + 40 = 48

6 × 8 = 48

Number family: 48 , 8 , 6

8 × 6 = 48

48 ÷ 6 = 8

48 ÷ 8 = 6

STOP
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6   ×   6

([**1**] × __6__) + ([**5**] × __6__)

__6__ + __30__ = __36__

__36__ = 6   ×   6

Number family: __36__ , __6__ , __5__

__36__ ÷ __6__ = __5__

STOP

Step 1.) Break apart 6 into _____ and _____

Draw a line to show how to break apart 6

● ● ● ● ● ●

● ● ● ● ● ●

● ● ● ● ● ●
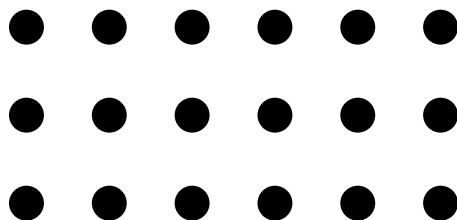
Step 2.) Multiply 1 and 5 by the other factor.

$$6 \times 3$$

$$(1 \times \underline{\quad}) + (5 \times \underline{\quad})$$

Step 3.) Add the products.

$$6 \times 3$$

$$(1 \times 3) + (5 \times 3)$$

$$\underline{\quad} + \underline{\quad}$$

$$6 \times 3 = \underline{\quad}$$

Read and solve.

1.) The basketballs were organized on shelves in the gym. Each shelf held 4 balls. There were 6 total shelves. How many basketballs were in the gym?

_____ × _____

(☐ × _____) + (☐ × _____)

_____ + _____

_____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

2.) Jill was excited for vacation. She packed 6 boxes of towels for her family. Each box had 7 towels. How many towels did she pack?

_____ × _____

(☐ × _____) + (☐ × _____)

_____ + _____

_____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

3.) Match the fact with the strategy or property by drawing a line.

8 × 0 ●   ● Skip count by 2s

12 × 1 ●   ● Identity Property

7 × 9 ●   ● Make Ten Subtract the Factor

7 × 2 ●   ● Skip count by 5s

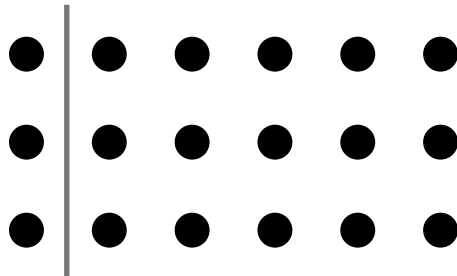10 × 8 ●   ● Break apart 6

4 × 5 ●   ● Zero Property

6 × 3 ●   ● Skip count by 10s

Step 1.) Break apart 6 into ___**1**___ and ___**5**___

Draw a line to show how to break apart 6

Step 2.) Multiply 1 and 5 by the other factor.

$$6 \times 3$$

$$(1 \times \underline{\ \textbf{3}\ }) + (5 \times \underline{\ \textbf{3}\ })$$

Step 3.) Add the products.

$$6 \times 3$$

$$(1 \times 3) + (5 \times 3)$$

$$\underline{\ \textbf{3}\ } + \underline{\ \textbf{15}\ }$$

$$6 \times 3 = \underline{\ \textbf{18}\ }$$

Read and solve.

1.) The basketballs were organized on shelves in the gym. Each shelf held 4 balls. There were 6 total shelves. How many basketballs were in the gym?

$$\underline{\ 6\ } \times \underline{\ 4\ }$$

$$(\boxed{5} \times \underline{\ 4\ }) + (\boxed{1} \times \underline{\ 4\ })$$

$$\underline{\ 20\ } + \underline{\ 4\ }$$

$$\underline{\ 24\ }$$

24

6   4

$$\underline{\ 4\ } \times \underline{\ 6\ } = \underline{\ 24\ }$$

$$\underline{\ 24\ } \div \underline{\ 4\ } = \underline{\ 6\ }$$

$$\underline{\ 24\ } \div \underline{\ 6\ } = \underline{\ 4\ }$$

2.) Jill was excited for vacation. She packed 6 boxes of towels for her family. Each box had 7 towels. How many towels did she pack?

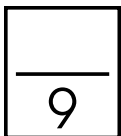$$\underline{\ 6\ } \times \underline{\ 7\ }$$

$$(\boxed{5} \times \underline{\ 7\ }) + (\boxed{1} \times \underline{\ 7\ })$$

$$\underline{\ 35\ } + \underline{\ 7\ }$$

$$\underline{\ 42\ }$$

42

7   5

$$\underline{\ 7\ } \times \underline{\ 6\ } = \underline{\ 42\ }$$

$$\underline{\ 42\ } \div \underline{\ 7\ } = \underline{\ 6\ }$$

$$\underline{\ 42\ } \div \underline{\ 6\ } = \underline{\ 7\ }$$

3.) Match the fact with the strategy or property by drawing a line.

8 × 0 ●   ● Skip count by 2s

12 × 1 ●   ● Identity Property

7 × 9 ●   ● Make Ten Subtract the Factor

7 × 2 ●   ● Skip count by 5s

10 × 8 ●   ● Break apart 6

4 × 5 ●   ● Zero Property

6 × 3 ●   ● Skip count by 10s

Solve each problem.

1.) 9
   × 9

2.) 3
   × 10

3.) 5 × 6 = ____

4.) ____ = 2 × 7

5.) 6 × 8

(☐ × 8) + (☐ × 8)

____ + ____

____

6.) 3 × 6

(☐ × ____) + (☐ × ____)

____ + ____

____

7.) 6 × 4

(☐ × ____) + (☐ × ____)

____ + ____

____

8.) 7 × 6

(☐ × 7) + (☐ × 7)

____ + ____

____

9.) Marcus sold 6 pies at the fundraiser. Each pie costs $6. How much money did Marcus make?

A $30   **B** $32   **C** $12   **D** $36

STOP

190

9

Solve each problem.

1.)
```
    9
  × 9
  ───
   81
```

2.)
```
     3
  × 10
  ────
    30
```

3.) 5 × 6 = __30__

4.) __14__ = 2 × 7

5.) 6 × 8

(**5** × 8) + (**1** × 8)

__40__ + __8__

__48__

6.) 3 × 6

(**5** × __3__) + (**1** × __3__)

__15__ + __3__

__18__

7.) 6 × 4

(**5** × __4__) + (**1** × __4__)

__20__ + __4__

__24__

8.) 7 × 6

(**5** × 7) + (**1** × 7)

__35__ + __7__

__42__

9.) Marcus sold 6 pies at the fundraiser. Each pie costs $6. How much money did Marcus make?

    A $30   **B** $32   **C** $12   **D** $36 STOP

[   ]

• • | • •
• • | • •
• • | • •
• • | • •
• • | • •
• • | • •
• • | • •

___ × ___ | ___ × ___

_____ + _____

_____ = 4 × 7

Number family: _____, _____, _____

_____ ÷ _____ = _____

___ × ___   ___ × ___   ___ × ___   ___ × ___

___ + ___ + ___ + ___

___ + ___

____ = 8 × 7

Number family: _____, _____, _____

_____ ÷ _____ = _____

STOP
193

7 × 4

__2__ × __7__ ┊ __2__ × __7__

__14__ + __14__

__28__ = 4 × 7

Number family: __28__ , __7__ , __4__

__28__ ÷ __7__ = __4__

$$7 \times 8$$
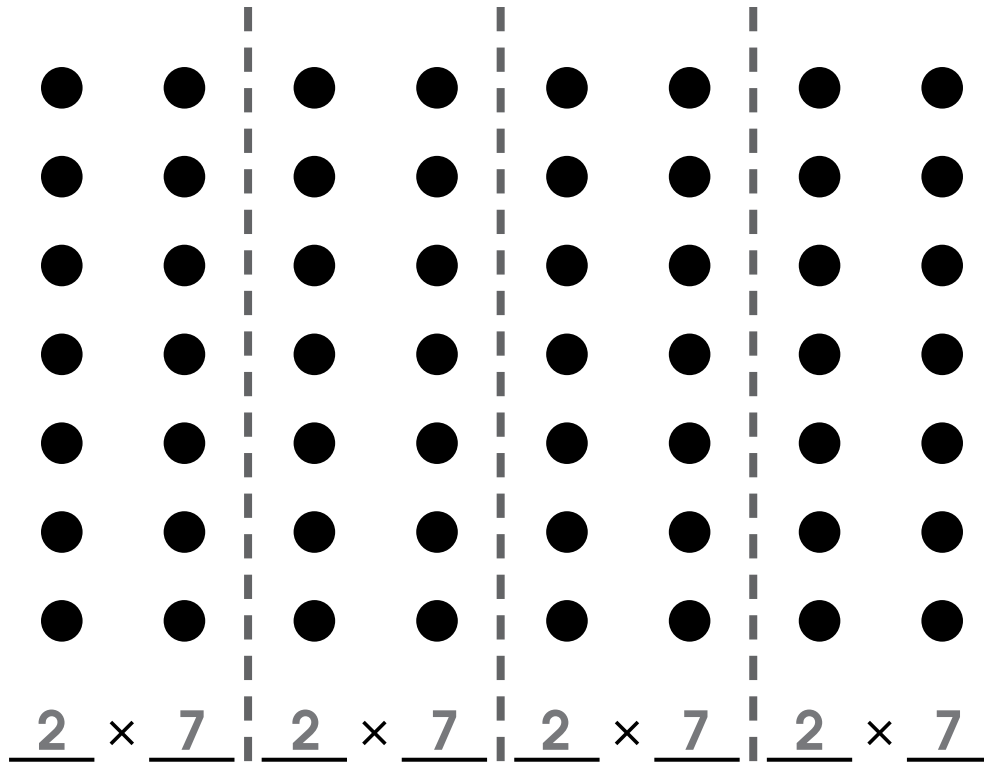
$$\underline{\quad 2 \quad} \times \underline{\quad 7 \quad} \mid \underline{\quad 2 \quad} \times \underline{\quad 7 \quad} \mid \underline{\quad 2 \quad} \times \underline{\quad 7 \quad} \mid \underline{\quad 2 \quad} \times \underline{\quad 7 \quad}$$

$$\underline{\quad 14 \quad} + \underline{\quad 14 \quad} + \underline{\quad 14 \quad} + \underline{\quad 14 \quad}$$

$$\underline{\quad 28 \quad} \quad + \quad \underline{\quad 28 \quad}$$

$$\underline{\quad 56 \quad} = 8 \times 7$$

Number family: $\underline{\quad 56 \quad}$, $\underline{\quad 7 \quad}$, $\underline{\quad 8 \quad}$

$$\underline{\quad 56 \quad} \div \underline{\quad 8 \quad} = \underline{\quad 7 \quad}$$

STOP

195

4s

Step 1.) Double the other factor.

Step 2.) Double it again.

Circle the other factor.   4 × 8

Write the doubles fact.   _____ + _____

What is the sum?   _____

So 4 × 8   _____

8s
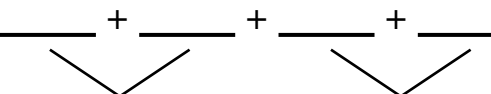
Step 1.) Double the other factor.

Step 2.) Double it again.

Step 3.) Double it last time.

Circle the other factor.   8 × 3

Write the doubles facts.   ___ + ___ + ___ + ___

Write the doubles fact.   ___ + ___

What is the sum?   _____

So 8 × 3   _____

Read each problem and solve.

1.) Matthew has 4 friends and wants to give each friend 3 notebooks. How many notebooks does Matthew need in all?

$$4 \times \underline{\quad}$$

$$\underline{\quad} + \underline{\quad}$$

$$\underline{\quad} = 4 \times \underline{\quad}$$

2.) New art materials come in 8 boxes of 8 brushes. How many brushes will the art class have?

$$\underline{\quad} \times 8$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} + \underline{\quad}$$

$$\underline{\quad} = 8 \times \underline{\quad}$$

3.) 4×8

$$\underline{\quad} + \underline{\quad}$$

$$4 \times 8 = \underline{\quad}$$

4.) 8×7

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} + \underline{\quad}$$

$$\underline{\quad} = 8 \times 7$$

STOP

197

4s

Step 1.) Double the other factor.

Step 2.) Double it again.

Circle the other factor. $4 \times ⑧$

Write the doubles fact.   __16__ + __16__

What is the sum?   __32__

So 4 × 8   __32__

8s

Step 1.) Double the other factor.

Step 2.) Double it again.

Step 3.) Double it last time.

Circle the other factor. $8 \times ③$

Write the doubles facts.   __6__ + __6__ + __6__ + __6__

Write the doubles fact.   __12__ + __12__

What is the sum?   __24__

So 8 × 3   __24__

Read each problem and solve.

1.) Matthew has 4 friends and wants to give each friend 3 notebooks. How many notebooks does Matthew need in all?

$$4 \times \underline{3}$$

$$\underline{6} + \underline{6}$$

$$\underline{12} = 4 \times \underline{3}$$

2.) New art materials come in 8 boxes of 8 brushes. How many brushes will the art class have?

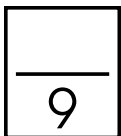$$\underline{8} \times 8$$

$$\underline{16} + \underline{16} + \underline{16} + \underline{116}$$

$$\underline{32} \quad + \quad \underline{32}$$

$$\underline{64} = 8 \times \underline{8}$$

3.) 4×8

$$\underline{16} + \underline{16}$$

$$4 \times 8 = \underline{32}$$

4.) 8×7

$$\underline{14} + \underline{14} + \underline{14} + \underline{14}$$

$$\underline{28} \quad + \quad \underline{28}$$

$$\underline{56} = 8 \times 7$$

STOP

9	

Solve each problem.

1.) ____ = 6 × 3

2.) 9 × 4 = ____

3.)   5
   × 2
   ____

4.) 12 × 1 = ____

5.)   8 × 3 = [ ]

____ + ____ + ____ + ____

____ + ____

6.)   7 × 4 = [ ]

____ + ____

____

7.) 4 × 3 = [ ]

____ + ____

____

8.)   8 × 8 = [ ]

____ + ____ + ____ + ____

____ + ____

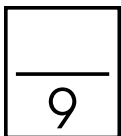**9.)** Circle the letter that shows Courtney correctly solved 4 × 8.

    A 4 × 8 = 12

    B 8 + 8 = 16 so 4 × 8 = 16

    C 16 + 16 = 32 so 4 × 8 = 32

    D 4 + 4 + 4 + 4 = 16 so 4 × 8 = 16

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INTERVENTION
STOP
200

9

Solve each problem.

1.) __18__ = 6 × 3

2.) 9 × 4 = __36__

3.) 5
      × 2
     ____
      10

4.) 12 × 1 = __12__

5.)   8 × 3 = ⬚ **24**

__6__ + __6__ + __6__ + __6__

     12   +   **12**

          24

6.)   7 × 4 = ⬚ **28**

__14__ + __14__

     28

7.)   4 × 3 = ⬚ **12**

__6__ + __6__

     12

8.)   8 × 8 = ⬚ **64**

__16__ + __16__ + __16__ + __16__

     32   +   **32**

          64

9.) Circle the letter that shows Courtney correctly solved 4 × 8.

   A 4 × 8 = 12

   B 8 + 8 = 16, so 4 × 8 = 16

   C 16 + 16 = 32, so 4 × 8 = 32

   D 4 + 4 + 4 + 4 = 16, so 4 × 8 = 16

STOP
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___ × ___   ___ × ___

(☐ × _____) + (☐ × _____)

_____ + _____

_____ = 7 × 3

Number family: _____, _____, _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

_____ × _____   _____ × _____

([   ] × _____) + ([   ] × _____)

_____ + _____

_____ = 7 × 7

Number family: _____, _____, _____

_____ ÷ _____ = _____

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$$7 \times 3$$

● ● ┊ ● ● ● ● ●

● ● ┊ ● ● ● ●

● ● ┊ ● ● ● ●
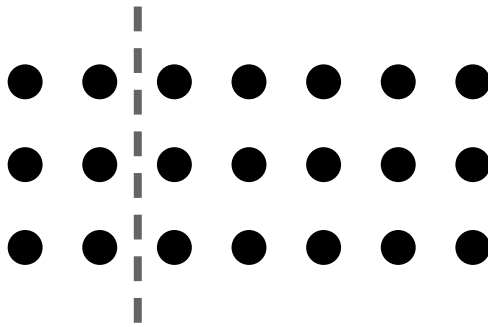
__2__ × __3__   __5__ × __3__

([__2__] × __3__) + ([__5__] × __3__)

__6__ + __15__

__21__ = 7 × 3

Number family: __21__ , __3__ , __7__

__21__ ÷ __3__ = __7__

__21__ ÷ __7__ = __3__

7 × 7
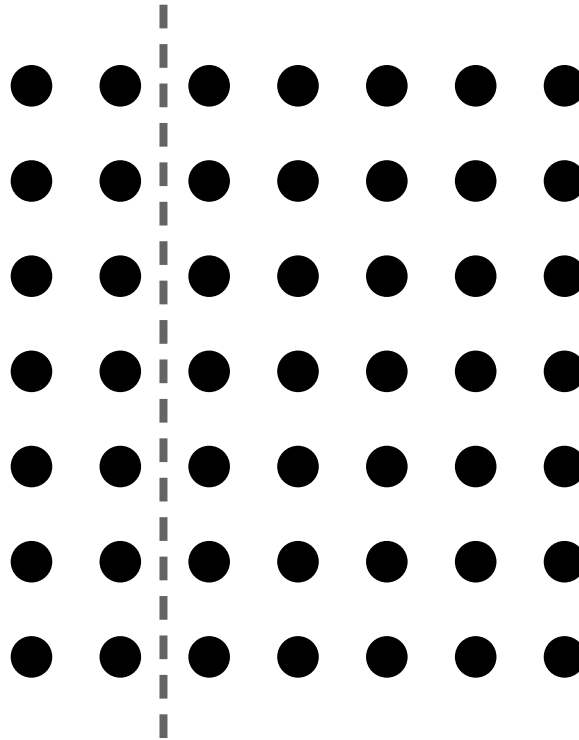
__2__ × __7__   __5__ × __7__

([2] × __7__) + ([5] × __7__)

__14__ + __35__

__49__ = 7 × 7

Number family: __49__ , __7__ , __7__

__49__ ÷ __7__ = __7__

7s

7×4

Step 1.) Break apart 7 into 5 and 2.

$$(\boxed{} \times \underline{\hphantom{00}}) + (\boxed{} \times \underline{\hphantom{00}})$$

Step 2.) Multiply 5 and 2 by the other factor.

$$\underline{\hphantom{00}} + \underline{\hphantom{00}}$$

Step 3.) Add the products.

$$\underline{\hphantom{00}} = 7 \times 4$$

6×7

$$(\boxed{} \times \underline{\hphantom{00}}) + (\boxed{} \times \underline{\hphantom{00}})$$

$$\underline{\hphantom{00}} + \underline{\hphantom{00}}$$

$$\underline{\hphantom{00}} = 6 \times 7$$

Read each problem and solve.

1.) Tomas has 7 jars. Each jar contains 7 insects. How many insects are there?

$$7 \times \text{\_\_\_\_}$$

$$(\boxed{} \times \text{\_\_\_\_}) + (\boxed{} \times \text{\_\_\_\_})$$

$$\text{\_\_\_\_} + \text{\_\_\_\_}$$

$$\text{\_\_\_\_ insects}$$

2.) Sofia earns $8 a day for pet sitting. She worked a total of 7 days. How much money did Sophia earn?

$$\text{\_\_\_\_} \times 7$$

$$(\boxed{} \times \text{\_\_\_\_}) + (\boxed{} \times \text{\_\_\_\_})$$

$$\text{\_\_\_\_} + \text{\_\_\_\_}$$

$$\$ \text{\_\_\_\_}$$

STOP
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7s

7×4

Step 1.) Break apart 7 into 5 and 2.

$(\boxed{5} \times \underline{\ 4\ }) + (\boxed{2} \times \underline{\ 4\ })$

Step 2.) Multiply 5 and 2 by the other factor.

$\underline{\ 20\ } + \underline{\ 8\ }$

Step 3.) Add the products.

$\underline{\ 28\ } = 7 \times 4$

6×7

$(\boxed{5} \times \underline{\ 6\ }) + (\boxed{2} \times \underline{\ 6\ })$

$\underline{\ 30\ } + \underline{\ 12\ }$

$\underline{\ 42\ } = 6 \times 7$

Read each problem and solve.

1.) Tomas has 7 jars. Each jar contains 7 insects. How many insects are there?

$$7 \times \underline{\ 7\ }$$

$$(\boxed{5} \times \underline{\ 7\ }) + (\boxed{2} \times \underline{\ 7\ })$$

$$\underline{35} + \underline{14}$$

$$\underline{49}\ \text{insects}$$

2.) Sofia earns $8 a day for pet sitting. She worked a total of 7 days. How much money did Sophia earn?

$$\underline{\ 8\ } \times 7$$

$$(\boxed{5} \times \underline{\ 8\ }) + (\boxed{2} \times \underline{\ 8\ })$$

$$\underline{40} + \underline{16}$$

$$\$\ \underline{56}$$

10

1.) _____ = 10 × 4

2.) 6
× 6

3.) 9
× 6

4.) 8 × 7 = [ ]

_____ + _____ + _____ + _____

_____ + _____

8 × 7 = _____

5.) 4 × 8 = [ ]

_____ + _____

4 × 8 = _____

6.) 3 × 7

([ ] × _____) + ([ ] × _____)

_____ + _____

_____ = 3 × 7

7.) Joshua sold 7 of his baseball cards for $4 each. How much money did Joshua get for his baseball cards?

    A $35   **B** $11   **C** $28   **D** $21

8.) 4×7

$(\boxed{} \times \underline{}) + (\boxed{} \times \underline{})$

$\underline{} + \underline{}$

$\underline{} = 4 \times 7$

9.) 7×7

$(\boxed{} \times \underline{}) + (\boxed{} \times \underline{})$

$\underline{} + \underline{}$

$\underline{} = 7 \times 7$

STOP

211

10

1.) __40__ = 10 × 4

2.)   6
        × 6
       ____
        36

3.)   9
        × 6
       ____
        54

4.)   8 × 7 = | 56 |

__14__ + __14__ + __14__ + __14__

    28   +   28
  _____   _____

    8 × 7 = __56__

5.) 4 × 8 = | 32 |

__16__ + __16__

4 × 8 = __32__

6.) 3 × 7

(| 5 | × __3__) + (| 2 | × __3__)

__15__ + __6__

__21__ = 3 × 7

7.) Joshua sold 7 of his baseball cards for $4 each. How much money did Joshua get for his baseball cards?

    A $35   **B** $11   **C** $28   **D** $21

8.) 4×7

($\boxed{5}$ × __4__) + ($\boxed{2}$ × __4__)

__20__ + __8__

__28__ = 4×7

9.) 7×7

($\boxed{5}$ × __7__) + ($\boxed{2}$ × __7__)

__35__ + __14__

__49__ = 7×7

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