☆ESTAR
INTERVENTION

Tier 2 Mathematics Intervention

Module: *Multiplication & Division Fact Strategies (MDFS)*

Form C Assessment

Name _____

Date _____

Teacher _____

1.) Jay has 5 packages of collectors cards. Each package has 3 cards. How many total collectors cards does Jay have?

      A 15 cards

      B 25 cards

      C 30 cards

      D 1 card

2.) Selena has 3 packs of gum. Each pack of gum has 8 pieces inside. How many pieces of gum does Selena have?

      A 18   **B** 9   **C** 3   **D** 24

3.) ___ $\times 3 = 9$

      A 6

      B 21

      C 8

      D 9

4.) ___ + ___ + ___ = 21

      A $5 + 5 + 5$

      B $7 + 7 + 7$

      C $9 + 9 + 9$

      D $6 + 6 + 6$

5.) Which multiplication equation represents this arrangement?

      A 2×3 **C** 4×4

      B 3×4 **D** 3×6

6.) Tomas plants 8 rows of tomato plants with 3 plants in each row. How many tomato plants does he have all together?
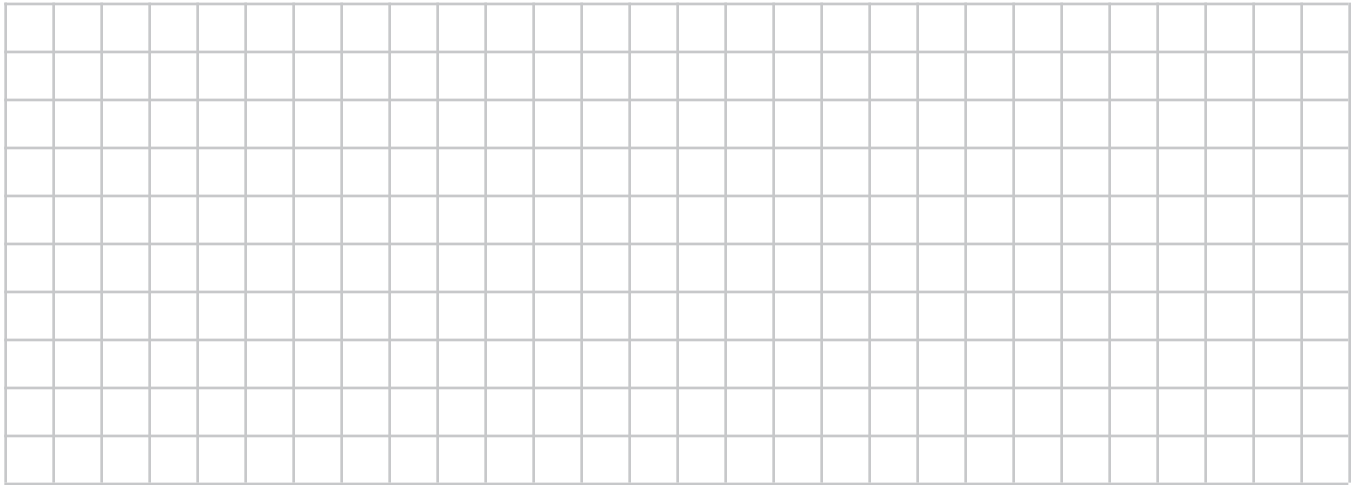
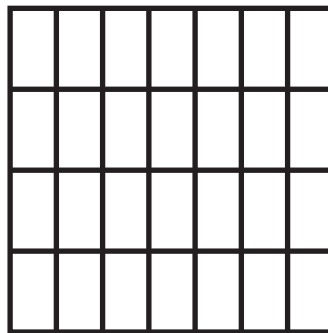**A** 24   **B** 10   **C** 4   **D** 21

7.) Which repeated addition equation represents the equal groups model?

A 7 + 7 +7 + 7   **C** 4 + 4 + 4 + 4 + 4 + 4

B 3 + 3 + 3   **D** 5 + 5 + 5

8.) There are 30 books on the floor in Dominic's room. His bookcase has 3 shelves. How many books will be on each shelf if he puts an equal number per shelf?

A 5 books per shelf
B 10 books per shelf
C 4 books per shelf
D 15 books per shelf

9.) There are 18 pieces of candy left in the bowl. Erin is fair, she will give herself and her 5 friends the same number of pieces. How many pieces does each person get if all 18 pieces are divided evenly?

A $18 \div 6 = 3$
   $6 + 3 = 18$

B $18 \div 2 = 9$
   $9 \times 2 = 12$

C $3 \div 18 = 6$
   $6 \times 18 = 3$

D $18 \div 3 = 7$
   $7 \times 3 = 18$

10.) There are 7 boxes. Each box has 6 toys. How many toys in all?

A 11

B 42

C 35

D 2

11.) There are 7 bags. Each bag has 3 potatoes. How many potatoes are there in all?

A 11

B 3

C 28

D 21

12.) Which is a correct way to break apart 14?

A   14
        7   ×   2

C   14
        7   ×   7

B   14
        10   ×   4

D   14
        13   ×   1

13.) Which equation does not belong to the number family, 2, 11, and 22?

    A $2 \times 11 = 22$ **C** $22 \div 11 = 2$

    B $11 \div 2 = 22$ **D** $11 \times 2 = 22$

14.) 9 girls sold 9 tickets for the school musical. How many tickets were sold altogether?

    A 81

    B 17

    C 27

    D 54

15.) Joe is figuring out the area of the wall in his room. It is 6 feet wide and 7 feet tall. Choose the correct way she can solve this unknown problem.

A $6 + 7$ **C** 6×7

     $(1 + 7) + (7 + 7)$ $(1 + 5) \times 7$

         $8 + 14 = 22$ $(1 \times 7) + (5 \times 7)$

                                        $7 + 35 = 42$

B 3×6 **D** 5×7

     $3 \times (3 + 3)$ $5 \times (1 + 6)$

     $(3 \times 3) + (3 \times 3)$ $1 \times 5 \times 6$

         $9 + 9 = 18$ $1 + 30 = 31$

16.) 4 girls sold 10 boxes of cookies each for a school fundraiser. How many boxes were sold in all?

    A 40

    B 15

    C 27

    D 8

17.) Colin is painting a wall that is 5 feet tall and 9 feet wide. Which expression can be used to find the area of the wall?

    A $9 + 5$

    B $5 + 5$

    C 9×5

    D 9×9

Use the Break Apart Strategy for 6s to solve the problem.

18.) The candy store is open 6 days a week for 7 hours each day. How many hours is the candy store open in one week?

_____ hours

    A 15   **B** 13   **C** 42   **D** 27

Use the Break Apart Strategy for 7s to solve the problem.

19.) John gets paid $7 for every lawn he mows. In the month of June, he mowed 8 lawns. How much money did John make in June?

$ _____ in June

    A 56   **B** 15   **C** 12   **D** 2

20.) There are 7 cars. Each car holds 4 people. How many total people can 7 cars hold? Use the Break Apart Strategy for 7s to solve.

    A 10

    B 21

    C 28

    D 35

21.) What strategy is the most efficient to solve 9×4?

    A Make 10 subtract the factor

    B Break-apart

    C Count by

    D Repeated addition

22.) On the math test Jill was solving 7×9. She remembered to break apart 7 into 2 and 5 but then got stuck. What is Nancy's next step?

    A multiply 7×2 and 8×5

    B multiply 2×9 and 5×9

    C add $2 + 5$

    D add $8 + 2$ plus 5

23.) A 1-year-old dog will have doubled in length since the time of birth. If a dog is born 6 inches long, by 6 years, how long will the dog be?

Choose the answer that shows the length of the dog in 6 years.

    A 1 inches

    B 36 inches

    C 12 inches

    D 21 inches

24.) 30 × 2 = _____

    A 60

    B 29

    C 47

    D 32

25.) To find the volume of a box, multiply the length times the width times the height. What is the volume of a box that is 5 cm in length, 2 cm in width, and 5 cm in height? Choose the answer that finds the volume of the box.

    A (5 × 2) × 5

         10 × 5

           50 cm³

    C (5 × 2) – 5

         10 – 5

           5 cm³

    B (5 × 2) + 5

         10 + 5

           15 cm³

    D (5 × 2) + 5

         10 + 2

           12 cm³

26.) 3 × 5 × 4 = _____

    A 12

    B 17

    C 23

    D 60

27.) Kevin has 4 times more pencils than pens. If he has 8 pens, how many pencils does he have?

    A 4 pencils   **C** 24 pencils

    B 12 pencils   **D** 32 pencils

28.) Kim has 3 times more baseball cards than basketball cards. If she has 4 basketball cards, how many baseball cards does she have?

    A 9   **B** 18   **C** 12   **D** 3

29.) Which is the missing factor in ____ × 8 = 48

    A 5

    B 3

    C 6

    D 12

30.) Which set of facts go with the number family?
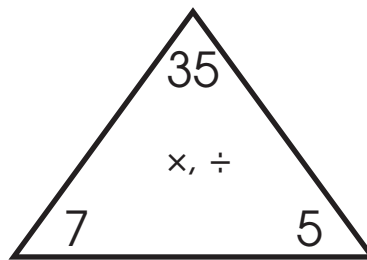
A $7 \times 5 = 35$	**C** $35 \times 7 = 5$
$5 \times 7 = 35$	$35 \times 5 = 7$
$35 \div 7 = 5$	$35 \div 7 = 5$
$35 \div 5 = 7$	$35 \div 5 = 7$
B $5 \times 7 = 35$	**D** $5 \times 35 = 7$
$7 \times 5 = 35$	$35 \times 7 = 5$
$7 \div 5 = 35$	$35 \div 7 = 5$
$5 \div 7 = 35$	$35 \div 5 = 7$

31.) Think multiplication to solve for division.

    $32 \div 4 = $ _____

    A 3

    B 40

    C 8

    D 5

32.) At track camp the campers have to run 6 laps around the field in the morning and 4 laps around the field in the afternoon. How many laps in total do campers run after 5 days at camp?

      A 45 laps

      B 50 laps

      C 9 laps

      D 25 laps

33.) $15 \div 5 = n$

$n =$ _____

      A 3

      B 4

      C 25

      D 30

Choose the correct division and multiplication with missing factor problem.

34.) Steve is making gift baskets. He has 120 chocolate bars and 5 baskets. If each basket has an equal number of chocolate bars, how many chocolate bars will he place in each basket?

    A $120 \div n = 5$ **C** $5 \div 120 = n$

       $n \times 120 = 5$ $n \times 5 = 120$

    B $120 \div 5 = n$ **D** $n \div 120 = 5$

       $5 \times n = 120$ $5 \times 120 = n$

35.) A farmer has 3 horses and 5 pigs. He has 7 times as many roosters as horses. How many roosters does the farmer have?

    A 10   **B** 21   **C** 4   **D** 15

36.) There are triple the amount of girls on the track team than boys. If there are 6 boys on the track team, how many girls are there?

    A 9   **B** 36   **C** 6   **D** 18

37.) It took 3 weeks to make the pool in Tom's backyard. Tom worked 5 days a week on the pool. He spends 5 hours a day working. How many days altogether did Tom work on his pool? Choose the correct equation for the problem.

A 5 × 3 = 15 days

B 5 × 3 × 4 = 75 days

C 6 × 3 = 18 days

D 5 × 5 = 25 days

38.) Julie did 8 math problems for homework on Monday. Then she did 4 times as many problems on Tuesday than Monday. How many problems did she do on Tuesday?

A 4   **B** 12   **C** 32   **D** 9

39.) Jose and three friends bought a pizza for $20. If each friend paid the same amount, how much did each friend pay?

A 12   **C** 3

B 5   **D** 7

40.) Vanessa did 9 pages of homework each night. She did $\frac{1}{4}$ of her homework on Monday. How many pages of homework did she do by Friday?

A 3

B 36

C 12

D 7