

Tier 2 Mathematics Intervention

Module: Multiplication & Division Fact Strategies (MDFS)

Form A Assessment

Name			
Date			
Teacher			

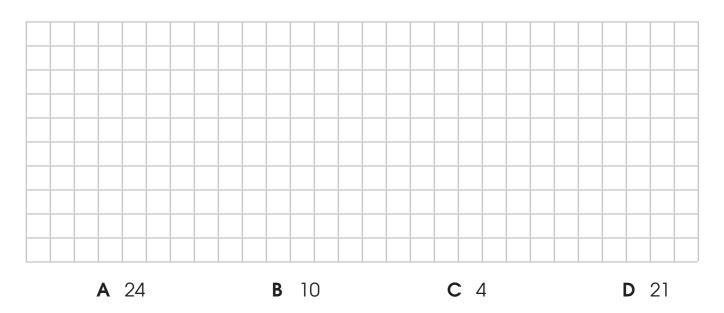
- 1.) Jay has 5 packages of collectors cards. Each package has 5 cards. How many total collectors cards does Jay have?
 - A 15 cards
 - **B** 25 cards
 - **C** 30 cards
 - **D** 1 card
- 2.) Selena has 3 packs of gum. Each pack of gum has 6 pieces inside. How many pieces of gum does Selena have?

	A 18	B 9	C 3	D 24
3.)	× 3 = 24			
	 A 6 B 21 C 8 D 9 			
4.)	+ _ + _ = 21 A $5 + 5 + 5$ B $7 + 7 + 7$ C $9 + 9 + 9$ D $6 + 6 + 6$			

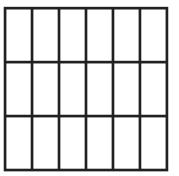
5.) Which multiplication equation represents this arrangement?



6.) Tomas plants 7 rows of tomato plants with 3 plants in each row. How many tomato plants does he have all together?



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



- A
 6+6+6
 C
 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 5 shelves. How many books will be on each shelf if he puts an equal number per shelf?
 - A 5 books per shelf
 - B 6 books per shelf
 - C 4 books per shelf
 - D 15 books per shelf

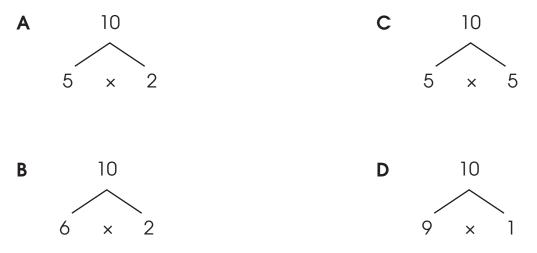
9.) There are 18 pieces of candy left in the bowl. Erin is fair, she will give herself and her 2 friends the same number of pieces. How many pieces does each person get if all 18 pieces are divided evenly?

Α	18 ÷ 3 = 6 6 × 3 = 18	C	3 ÷ 18 = 6 6 × 18 = 3
В	18 ÷ 2 = 9 9 × 2 = 12	D	18 ÷ 3 = 7 7 × 3 = 18

10.) There are 5 boxes. Each box has 6 toys. How many toys in all?

- A 11B 30A 25
- **C** 35
- **D** 2
- 11.) There are 7 bags. Each bag has 4 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 10?



13.) Which equation does not belong to the number family, 4, 9, and 36?

- **A** $4 \times 9 = 36$ **B** $36 \div 9 = 4$ **C** $9 \div 4 = 2$ **D** $9 \times 4 = 36$
- 14.) 9 girls sold 8 tickets for the school musical. How many tickets were sold altogether?
 - A 72B 17
 - **C** 27
 - **D** 54
- **15.)** Joe is figuring out the area of the wall in his room. It is 6 feet wide and 5 feet tall. Choose the correct way she can solve this unknown problem.

A 6 + 5	C 6 × 5
(1 + 5) + (5 + 5)	$(1 + 5) \times 5$
6 + 10 = 16	$(1 \times 5) + (5 \times 5)$
	5 + 25 = 30
B 3 × 6	D 5 × 6
B 3 × 6 3 × (3 + 3)	D 5 × 6 5 × (1+5)

- **16.)** 4 girls sold 9 boxes of cookies each for a school fundraiser. How many boxes were sold in all?
 - **A** 36
 - **B** 13
 - **C** 27
 - **D** 5

- 17.) Colin is painting a wall that is 5 feet tall and 8 feet wide. Which expression can be used to find the area of the wall?
 - A 8+5
 B 5+5
 C 8×5
 D 8×8

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

18.) The candy store is open 6 days a week for 9 hours each day. How many hours is the candy store open in one week?

hours			
A 15	B 3	C 54	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 7 lawns. How much money did John make in June?



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- **20.)** There are 5 cars. Each car holds 7 people. How many total people can 5 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 $9 \times 3?$

- A Make 10 subtract the factor
- B Break-apart
- **C** Count by
- **D** Repeated addition
- **22.)** On the math test Jill was solving 7 × 8. She remembered to break apart 7 into 2 and 5 but then got stuck. What is Nancy's next step?

Α	multiply 7 × 2	С	add 2 + 5
	and 8 × 5		
В	multiply 2 × 8	D	add 8 + 2
	and 5 × 8		plus 5

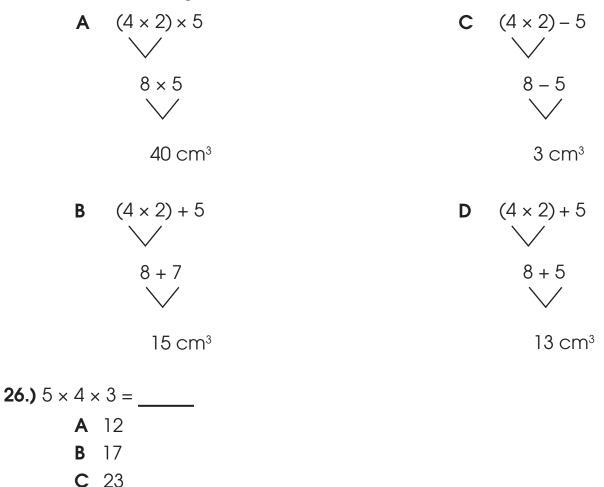
23.) A 1-year-old dog will have doubled in length since the time of birth. If a dog is born 6 inches long, by 4 years, how long will the dog be?

Choose the answer that shows the length of the dog in 4 years.

- A 1 inches
- B 24 inches
- C 12 inches
- D 21 inches

24.) 27 × 2 =

- **A** 54
- **B** 29
- **C** 47
- **D** 56
- **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 4 cm in length, 2 cm in width, and 5 cm in height? Choose the answer that finds the volume of the box.



- D 6027.) Kevin has 4 times more pencils than pens. If he has 6 pens, how many
 - A Kevin has 4 times more pencils than pens. It he has 6 pens, how many pencils does he have?

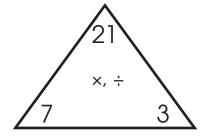
Α	4 pencils	С	24 pencils
B	6 pencils	D	32 pencils

28.) Kim has 3 times more baseball cards than basketball cards. If she has 6 basketball cards, how many baseball cards does she have?

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

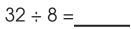
- **29.)** Which is the missing factor in $__$ × 8 = 40
 - **A** 5
 - **B** 3
 - **C** 6
 - **D** 12

30.) Which set of facts go with the number family?



Α	7 × 2 = 21	C	$21 \times 7 = 3$
	$21 \times 7 = 3$		7 × 3 = 21
	21 ÷ 7 = 3		21 ÷ 7 = 3
	21 ÷ 3 = 7		21 ÷ 3 = 7
В	7 × 3 = 21	D	3 × 21 = 7
	3 × 7 = 21		21 × 3 = 7
	21 ÷ 7 = 3		21 ÷ 7 = 3
	21 ÷ 3 = 7		3 ÷ 7 = 21

31.) Think multiplication to solve for division.



A 3B 40C 4D 5

- **32.)** At track camp the campers have to run 5 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** 40 laps
 - **C** 9 laps
 - **D** 25 laps
- **33.)** 20 ÷ 5 = *n*

n =	
Α	3
В	4
С	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 6 baskets. If each basket has an equal number of chocolate bars, how many chocolate bars will he place in each basket?

Α	$120 \div n = 6$ $n \times 120 = 6$	C	6 ÷ 120 = n n × 6 = 120
В	120 ÷ 6 = <i>n</i> 6 × <i>n</i> = 120	D	n ÷ 120 = 6 6 ×120 = n

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

36.) There are triple the amount of girls on the track team than boys. If there are 9 boys on the track team, how many girls are there?

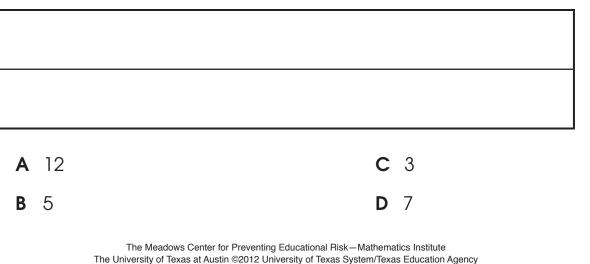


37.) It took 3 weeks to make the pool in Tom's background. Tom worked 4 days a week on the pool. He spends 5 hours a day working. How many days altogether did Tom work on his pool? Choose the correct equation for the problem.

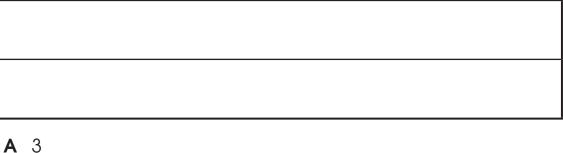
- **A** $4 \times 3 = 12$ days
- **B** $5 \times 3 \times 4 = 60$ days
- **C** $5 \times 3 = 15$ days
- **D** $5 \times 4 = 20$ days
- **38.)** Julie did 5 math problems for homework on Monday. Then she did 4 times as many problems on Tuesday than Monday. How many problems did she do on Tuesday?

A 4	B 20	C 5	 9

39.) Jose and three friends bought a pizza for \$12. If each friend paid the same amount, how much did each friend pay?



40.) Vanessa did 3 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?



B 9
C 12
D 7

