## 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.) $\qquad$
A 6
B 21
C 8
D 9
4.) $\qquad$ $+\ldots+$ $\qquad$ $=21$

A $5+5+5$
B $7+7+7$
C $9+9+9$
D $6+6+6$
5.) Which multiplication equation represents this arrangement?

A $2 \times 3$
C $4 \times 4$
B $3 \times 4$
D $3 \times 5$
6.) Tomas plants 7 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 $6+6+6$
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 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?
A $18 \div 3=6$
$6 \times 3=18$
C $3 \div 18=6$
$6 \times 18=3$
B $18 \div 2=9$
$9 \times 2=12$
D $\begin{array}{r}18 \div 3=7 \\ 7 \times 3=18\end{array}$
10.) There are 5 boxes. Each box has 6 toys. How many toys in all?

A 11
B 30
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 ?
A

C

B

D

10

13.) Which equation does not belong to the number family, 4,9 , and 36 ?
A $4 \times 9=36$
C $9 \div 4=2$
B $36 \div 9=4$
D $9 \times 4=36$
14.) 9 girls sold 8 tickets for the school musical. How many tickets were sold altogether?

A 72
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 5 feet tall. Choose the correct way she can solve this unknown problem.
A
$6+5$
C
$6 \times 5$
$(1+5)+(5+5)$
$(1+5) \times 5$
$6+10=16$
$(1 \times 5)+(5 \times 5)$ $5+25=30$
B $\begin{aligned} 3 & \times 6 \\ 3 & \times(3+3) \\ (3 \times 3) & +(3 \times 3) \\ 9 & +9=18\end{aligned}$
D $\quad 5 \times 6$
$5 \times(1+5)$
$1 \times 5 \times 5$
$1+25=25$
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 $8 \times 5$
D $8 \times 8$

Use the Break Apart Strategy for 6 s 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?
$\qquad$ hours
A 15
B 3
C 54
D 27

Use the Break Apart Strategy for 7 s 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?
\$ $\qquad$ in June
A 49
B 30
C 12
D 2
20.) There are 5 cars. Each car holds 7 people. How many total people can 5 cars hold? Use the Break Apart Strategy for 7 s 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 $7 \times 8$. She remembered to break apart 7 into 2 and 5 but then got stuck. What is Nancy's next step?
A multiply $7 \times 2$
C add $2+5$ and $8 \times 5$
B multiply $2 \times 8$ and $5 \times 8$
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 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.) $27 \times 2=$ $\qquad$
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.
A $(4 \times 2) \times 5$

$40 \mathrm{~cm}^{3}$

8-5

$3 \mathrm{~cm}^{3}$

B $\begin{gathered}(4 \times 2)+5 \\ \vee+7\end{gathered}$
$15 \mathrm{~cm}^{3}$

D $(4 \times 2)+5$

$13 \mathrm{~cm}^{3}$
26.) $5 \times 4 \times 3=$ $\qquad$
A 12
B 17
C 23
D 60
27.) Kevin has 4 times more pencils than pens. If he has 6 pens, how many pencils does he have?
A 4 pencils
C 24 pencils
B 6 pencils
D 32 pencils
28.) $K i m$ 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 $\qquad$ $\times 8=40$

A 5
B 3
C 6
D 12
30.) Which set of facts go with the number family?

A $7 \times 2=21$
$21 \times 7=3$
$21 \div 7=3$
$21 \div 3=7$
C $21 \times 7=3$
$7 \times 3=21$
$21 \div 7=3$
$21 \div 3=7$
B $7 \times 3=21$
$3 \times 7=21$
D $3 \times 21=7$
$21 \times 3=7$
$21 \div 7=3$
$21 \div 7=3$
$21 \div 3=7$
$3 \div 7=21$
31.) Think multiplication to solve for division.

$$
32 \div 8=
$$

A 3
B 40
C 4
D 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.) $20 \div 5=n$

$$
n=
$$

$\qquad$
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 6 baskets. If each basket has an equal number of chocolate bars, how many chocolate bars will he place in each basket?
A $120 \div n=6$
$n \times 120=6$
C $6 \div 120=n$
$n \times 6=120$
B $120 \div 6=n$
$6 \times n=120$
D $n \div 120=6$
$6 \times 120=n$
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?
A 15
B 9
C 8
D 6
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?
A 12
B 36
C 6
D 27
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.
$\square$
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?
$\square$
A 4
B 20
C 5
D 9
39.) Jose and three friends bought a pizza for \$12. If each friend paid the same amount, how much did each friend pay?
$\square$
A 12
C 3
B 5
D 7
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?
$\qquad$
A 3
B 9
C 12
D 7

