## Tier 2 Mathematics Intervention

Module: Multiplication \& Division Fact Strategies (MDFS)
Form B Assessment

Date

Teacher
1.) Jay has 5 packages of collectors cards. Each package has 4 cards. How many total collectors cards does Jay have?

A 9 cards
B 20 cards
C 25 cards
D 5 cards
2.) Selena has 2 packs of gum. Each pack of gum has 6 pieces inside. How many pieces of gum does Selena have?
A 12
B 8
C 6
D 18
3.) $8 \times$ $\qquad$ $=24$

A 6
B 16
C 3
D 9
4.) $\qquad$ $+\quad+$ $\qquad$ $=18$

A $5+5+5$
B $6+6+6$
C $9+9+1$
D $3+3+3$
5.) Which multiplication equation represents this arrangement?

A $2 \times 3$
C $3 \times 3$
B $3 \times 4$
D $5 \times 5$
6.) Tomas plants 9 rows of tomato plants with 3 plants in each row. How many tomato plants does he have all together?

A 27
B 12
C 9
D 24
7.) Which repeated addition equation represents the equal groups model?

A $5+5+5+5+5$
C $1+1+1$
B $3+3+3$
D $5+5+5$
8.) There are 35 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 30 books per shelf
B 7 books per shelf
C 6 books per shelf
D 40 books per shelf
9.) There are 21 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 21 pieces are divided evenly?
A $21 \div 3=7$ $7 \times 3=21$
C $3 \div 21=7$ $7 \times 21=3$
B $21 \div 2=11$
$11 \times 2=22$
D $21 \div 3=6$
$6 \times 3=21$
10.) There are 5 boxes. Each box has 3 toys. How many toys in all?

A 8
B 15
C 20
D 9
11.) There are 8 bags. Each bag has 4 potatoes. How many potatoes are there in all?

A 12
B 8
C 32
D 28
12.) Which is a correct way to break apart 12 ?
A

C

B
12

D
12

13.) Which equation does not belong to the number family $7,9,63$ ?
A $9 \times 7=63$
C $7 \div 63=9$
B $7 \times 9=63$
D $63 \div 9=7$
14.) 6 girls sold 9 tickets for the school musical. How many tickets were sold altogether?

A 45
B 15
C 48
D 54
15.) Joe is figuring out the area of the wall in his room. It is 4 feet wide and 6 feet tall. Choose the correct way she can solve this unknown problem.
A
$6+4$
C
$6 \times 4$
$(1+5)+(4+4)$
$(1+5) \times 4$
$6+8=14$
$(1 \times 4)+(5 \times 4)$
$4+20=24$
B $\quad 4 \times 6$
$3 \times(3+3)$
$(3 \times 3)+(3 \times 3)$
$9+9=18$
D $\quad 4 \times 6$
$4 \times(1+5)$
$4 \times 5 \times 5$
$4+25=29$
16.) 8 girls sold 9 boxes of cookies each for a school fundraiser. How many boxes were sold in all?

A 72
B 17
C 90
D 80
17.) Colin is painting a wall that is 6 feet tall and 8 feet wide. Which expression can be used to find the area of the wall?

A $6+8$
B $8 \times 8 \times 8 \times 8 \times 8 \times 8$
C $6 \times 8$
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 4 hours each day. How many hours is the candy store open in one week?
$\qquad$ hours
A 15
B 30
C 10
D 24

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 5 lawns. How much money did John make in June?
\$ $\qquad$ in June
A 42
B 13
C 15
D 35
20.) There are 7 cars. Each car holds 3 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 $8 \times 9$ ?

A Break-apart
B Count by
C Repeated addition
D Make 10 subtract the factor
22.) On the math test Jill was solving $7 \times 7$. 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 $7 \times 5$
B multiply $2 \times 5$ and $5 \times 7$
D add $7+2$
multiply by 5
23.) A 1-year-old dog will have doubled in length since the time of birth. If a dog is born 10 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 14 inches
B 40 inches
C 20 inches
D 4 inches
24.) $2 \times 36=$ $\qquad$
A 62
B 72
C 60
D 16
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 3 cm in length, 2 cm in width, and 4 cm in height? Choose the answer that finds the volume of the box.

A $(3 \times 2) \times 4$

$24 \mathrm{~cm}^{3}$

B $(3 \times 2)+4$

$12 \mathrm{~cm}^{3}$

$2 \mathrm{~cm}^{3}$

D $(3 \times 2)+4$

$10 \mathrm{~cm}^{3}$
26.) $5 \times 4 \times 2=$ $\qquad$
A 11
B 17
C 23
D 40
27.) Kevin has 6 times more pencils than pens. If he has 4 pens, how many pencils does he have?
A 4 pencils
C 24 pencils
B 6 pencils
D 32 pencils
28.) $K i m$ has 4 times more baseball cards than basketball cards. If she has 4 basketball cards, how many baseball cards does she have?
A 10
B 8
C 16
D 12
29.) Which is the missing factor in $\qquad$ $\times 9=36$

A 4
B 3
C 6
D 12
30.) Which set of facts go with the number family?

A $8+8=64$ $8 \div 8=64$
C $64 \times 8=8$
$8 \div 64=8$
B $8 \times 8=64$
$64 \div 8=8$
D $\begin{array}{r}8 \times 64=8 \\ 64 \div 8=8\end{array}$
31.) Think multiplication to solve for division.

$$
32 \div 4=
$$

$\qquad$
A 28
B 40
C 8
D 9
32.) At track camp the campers have to run 6 laps around the field in the morning and 2 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.) $12 \div 3=n$
$n=$ $\qquad$
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 130 chocolate bars and 4 baskets. If each basket has an equal number of chocolate bars, how many chocolate bars will he place in each basket?
A $130 \div n=4$
$n \times 130=4$
C $4 \div 130=n$
$n \times 4=130$
B $130 \div 4=n$
$4 \times n=130$
D $n \div 130=4$
$4 \times 130=n$
35.) A farmer has 4 horses and 5 pigs. He has 4 times as many roosters as horses. How many roosters does the farmer have?
A 16
B 8
C 20
D 13
36.) There are double 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 11
B 27
C 14
D 18
37.) It took 4 weeks to make the pool in Tom's backyard. Tom worked 5 days a week on the pool. He spends 8 hours a day working. How many days altogether did Tom work on his pool? Choose the correct equation for the problem.
$\square$
A $5 \times 4=20$ days
B $4 \times 5 \times 8=160$ days
C $4 \times 8=32$ days
D $8 \times 5=40$ days
38.) Julie did 6 math problems for homework on Monday. Then she did 7 times as many problems on Tuesday than Monday. How many problems did she do on Tuesday?
$\square$
A 13
B 7
C 42
D 49
39.) Jose and two friends bought a pizza for $\$ 27$. If each friend paid the same amount, how much did each friend pay?
$\square$
A 29
C 3
B 9
D 30
40.) Vanessa did 5 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 15
B 20
C 25
D 10

