Give the best answer for each question.

1. Match each multiplication expression with its product.

7 × 9	12
5 × 4	63
3 × 4	42
5 × 5	25
6 × 7	20

2. What number makes each equation true?

_____ × 6 = 54

6 × _____ = 54

54 ÷ _____ = 6

54 ÷ 6 = _____

3. What is the area of the figure?
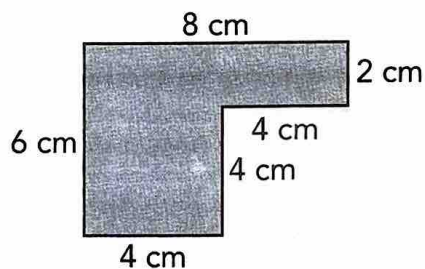
○ 16 square cm

○ 24 square cm

○ 32 square cm

○ 48 square cm

4. Match each division expression with its quotient.

45 ÷ 5	3
27 ÷ 9	6
36 ÷ 6	7
63 ÷ 9	8
24 ÷ 3	9

5. Twenty children go on a trip in 5 cars. Each car takes the same number of children. How many children ride in each car?

_____ children

6. There are 9 shelves on the wall. There are 5 trophies on each shelf. Make an array to represent the situation.
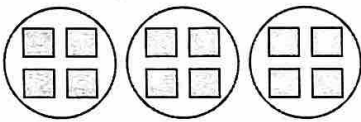
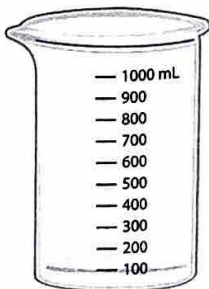How many trophies are there altogether on the shelves?

_____ trophies

7. Add.

$$\begin{array}{r} 5\ 7\ 6 \\ +\ 1\ 8\ 8 \\ \hline \end{array}$$

8. What is a division equation for the model?

_____

What is a related multiplication equation for the division equation you wrote?

_____

9. Charlie pours the water in the beaker into 10 test tubes.
He pours the same amount into each test tube.

How much water does Charlie pour into each test tube?

_____

10. Each team has 20 players.
How many players are on 5 teams?

○ 80 players   ○ 100 players

○ 120 players   ○ 140 players

11. Which multiplication equations are true?

Select **all** that apply.

○ $9 \times 1 = 9$

○ $0 \times 6 = 6$

○ $1 \times 1 = 1$

○ $5 \times (3 + 2) = (5 \times 3) + (5 \times 2)$

○ $1 \times 5 = 0$

○ $3 \times 9 = 9 \times 3$

12. Which statements are true?

Select **all** that apply.

○ All squares are parallelograms.

○ All rhombuses are quadrilaterals.

○ All squares are rectangles.

○ All parallelograms are rectangles.

○ All parallelograms are rhombuses.

13. Jonah will leave to go to the library
at 4:30. The clock shows the time now.

What time is it now? _____

In how many minutes will Jonah leave
to go to the library?

He will leave in _____ minutes.

14. A concert costs $6 for each adult ticket and $4 for
each senior ticket. A family buys 3 adult tickets and
1 senior ticket. How much does the family spend
on tickets? Explain.

15. Len makes 368 birthday cards. He also makes
212 thank-you cards. He sells 487 of the cards he makes.
How many of the cards does Len not sell?

Len does not sell _____ cards.

How can you use rounding to check that your answer is
reasonable?

16. What is an equivalent addition equation for 2 × 6 = 12?

_____

17. Part A
What is 753 rounded to the nearest ten?

○ 700   ○ 750

○ 760   ○ 800
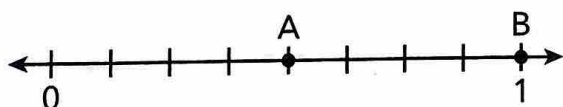
Part B
What is 753 rounded to the nearest hundred?

○ 700   ○ 750

○ 760   ○ 800

18. Part A
Which fractions are equivalent to the fraction modeled by Point A on the number line?

Select **all** that apply.

○ $\frac{2}{6}$ ○ $\frac{3}{6}$

○ $\frac{1}{2}$ ○ $\frac{2}{4}$

Part B
Which fraction is modeled by Point B on the number line?

○ $\frac{1}{8}$ ○ $\frac{8}{8}$

○ $\frac{3}{8}$ ○ $\frac{7}{8}$

19. Use the table.

×	0	1	2	3	4	5	6
0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6
2	0	2	4	6	8	10	12
3	0	3	6	9	12	15	18
4	0	4	8	12	16	20	24
5	0	5	10	15	20	25	30
6	0	6	12	18	24	30	36

Part A
What pattern do you see when multiplying two even numbers?
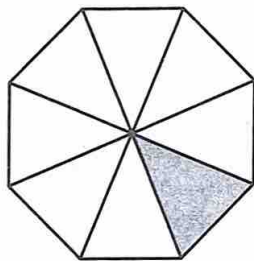
An even number times an even number is _____.

Part B
What pattern do you see when multiplying an even number and an odd number?

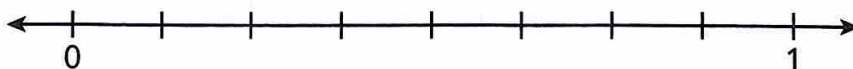An even number times an odd number is _____.

20. Part A
Which fraction represents the shaded part?

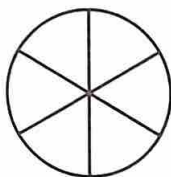○ $\frac{1}{3}$ ○ $\frac{1}{6}$ ○ $\frac{1}{4}$ ○ $\frac{1}{8}$

Part B
Use the number line to model the fraction you named.

0 ⟶ 1

21. Part A

Use the circle to model the fraction $\frac{4}{6}$.

Part B

Use the number line to model the fraction $\frac{4}{6}$.

0   1

22. Lucy counts 15 rainy days in September, 9 rainy days in October, and 3 rainy days in November.

Part A

Use Lucy's data to complete the picture graph.

| Rainy Days	
September	
October	
November	
Each ☂ = 3 rainy days.	

Part B

What scale would you choose for a bar graph that shows the data about rainy days? Explain.

23. Meg cuts a pizza into 8 equal pieces. Her friends eat 6 pieces. Meg eats the rest. What fraction of the pizza does Meg eat?

Meg eats _____ of the pizza.

Explain how you got your answer.

24. The line plot shows the lengths (in inches) of some pieces of string.

String Lengths

Length (in inches)
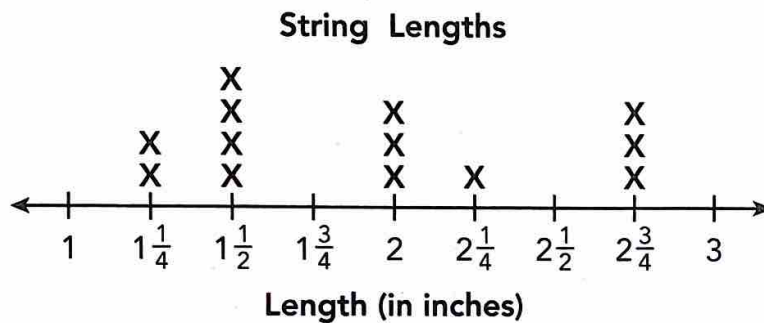
Part A
The length of this piece of string is not included on the line plot. Measure the piece of string to the nearest quarter inch.

_____ inches

Part B
How will the line plot change if you include the length you measured in part A?

25. In the figure, the area of each small square is 1 square unit.

Part A
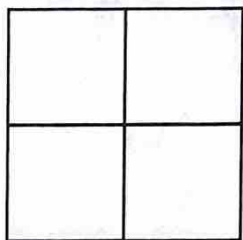What is the area of the figure?

_____

Part B
What is the perimeter of the figure?

_____

26. Eva and Fran each draw a square. The squares are the same size. Each girl divides her square into four smaller squares that are the same size.
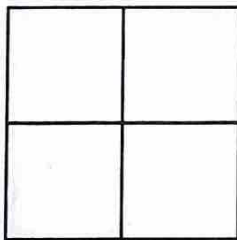
Part A
Eva shades 3 smaller squares in her drawing.
Fran shades 1 smaller square in her drawing.
Show how each girl shades her drawing.

Eva's Drawing   Fran's Drawing

Part B
Which girl shades a greater fraction of the area of her square? Explain.
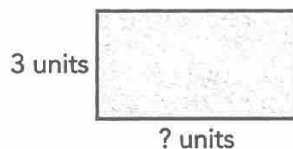
27. Part A
Compare. Use > or <.

$\dfrac{5}{6}$ _____ $\dfrac{5}{8}$

Part B
Explain your answer.

28. Part A
The perimeter of the rectangle is 18 units.
Find the length of the rectangle. Then find the area.
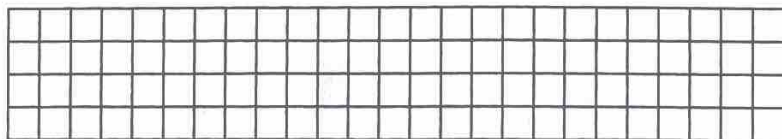
3 units ▢
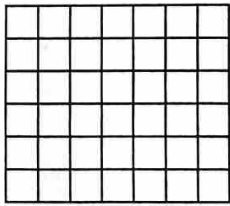? units

Length: _____

Area: _____

Part B
Draw a rectangle with whole number side lengths that
has the same area but a different perimeter than the
rectangle in Part A.

What is the perimeter of your rectangle?

Perimeter: _____

29. Liz and Janet draw a rectangle. In their drawing, each small square is 1 square inch. Liz and Janet write two different equations to find the area.

Liz's equation: $6 \times 7 = (4 \times 7) + (2 \times 7)$

Janet's equation: $6 \times 7 = (3 \times 7) + (3 \times 7)$

Part A
What property are Liz and Janet using?

They are using the _____ Property.

Part B
What is the area of the rectangle?

Area = _____

30. Pablo wants to make a picture frame.
The picture frame will be shaped like a trapezoid.

Part A
How many right angles could the picture frame have?

Select **all** that apply.

○ 0   ○ 1   ○ 2   ○ 3   ○ 4

Part B
Draw examples to support your answer to Part A.