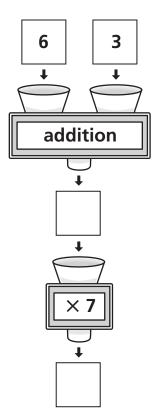
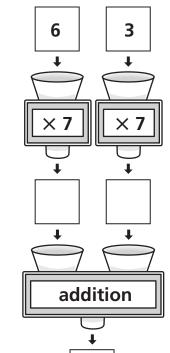
Multiplication and Addition

Write the outputs. Then record the calculations in a number sentence.



Number sentence:

2



Number sentence:





Test Prep

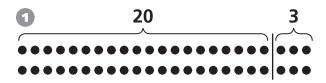
Compare figures A and B. Are the figures congruent? Explain how you know.



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Using Sums to Multiply

Complete the multiplication problems to match the diagram. Make the third product equal to the sum of the first two products.



30

20

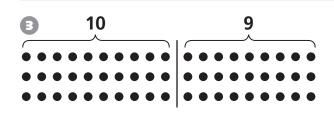
3

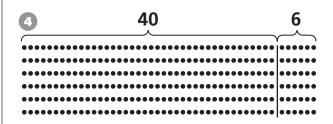
23

40

4

31





 \times









46



Test Prep

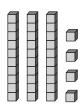
5 Ms. Lopez bought 50 inches of ribbon to decorate 2 shirts. She used 18 inches of the ribbon for each shirt. How many inches of ribbon did she have left?

- A. 14 inches
- C. 36 inches
- **B.** 32 inches
- D. 68 inches

Multiplying with Base-Ten Blocks

34

Write the number represented by . . .

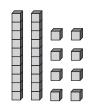


30 1 the rods only the units only

all the blocks

 $2 \times$ the units

- $\mathbf{2} \times \mathbf{2} \times \mathbf{2}$
 - $2 \times$ all the blocks
- lacksquare 3 × the rods
 - $3 \times$ the units
 - $3 \times$ all the blocks



- 4 the rods only the units only all the blocks
- \bullet 4 \times the rods
 - $4 \times$ the units
 - $4 \times$ all the blocks
- \bullet 5 × the rods
 - $\mathbf{5} \times \mathbf{the} \ \mathbf{units}$
 - $\mathbf{5} \times \mathbf{all}$ the blocks

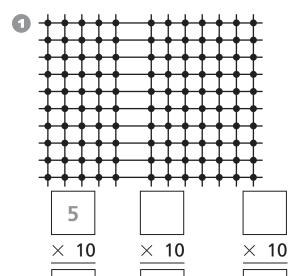


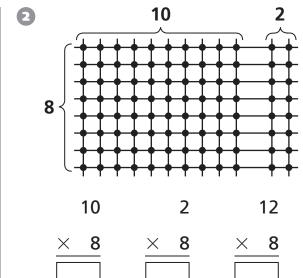
Test Prep

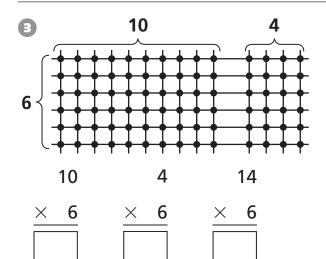
What is the perimeter of this square? Explain how you know. 2 centimeters

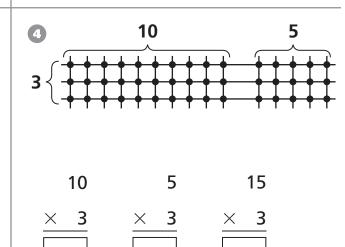
Multiplying with Arrays

Complete the multiplication sentences to match the arrays. Make the third product equal to the sum of the first two products.











Test Prep

What number makes the number sentence true?

$$500 + \blacksquare + 9 = 569$$

- **A.** 50
- **B.** 60

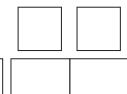
C. 69

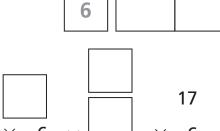
D. 90

Separating Arrays to Multiply

Fill in the missing numbers. Imagine or draw lines and intersections if needed.

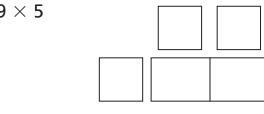
 17×6

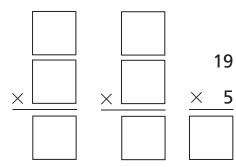




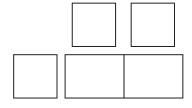
] 17
× 6	×	× 6



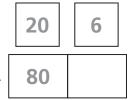














Test Prep

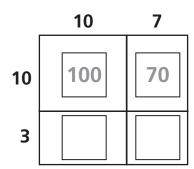
5 What is the next figure in the pattern?

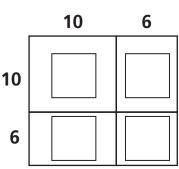


A.
$$\triangle$$

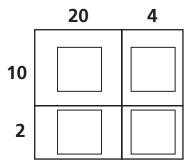
Multiplying with Larger Numbers

Use the diagram to help you find the product.

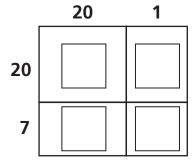




B



4



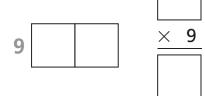


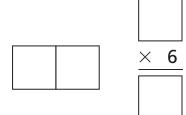
Test Prep

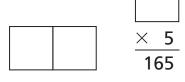
5 Latoya tosses two cubes numbered 1 through 6. She adds the numbers. Which is more likely? She will get a sum greater than 10 or a sum 10 or less? Explain how you know.

Finding Missing Factors

Complete the diagram and the multiplication sentences.









Test Prep

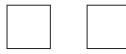
- Amber has a box of 7 red, 22 green, 10 yellow, and 2 blue paper clips. If she pulls a paper clip out of the box without looking, what color would it most likely be?
 - A. red
- **B.** green
- **C.** yellow
- **D.** blue

Division

Solve the division problem. Use the rectangles if you wish.

10

3





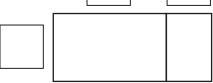


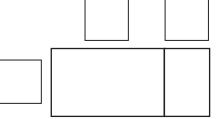














Test Prep

Which number sentence belongs to the same fact family as this number sentence?

$$9 \times 12 = 108$$

A.
$$108 - 9 = 99$$

D.
$$12 \times 9 = 108$$