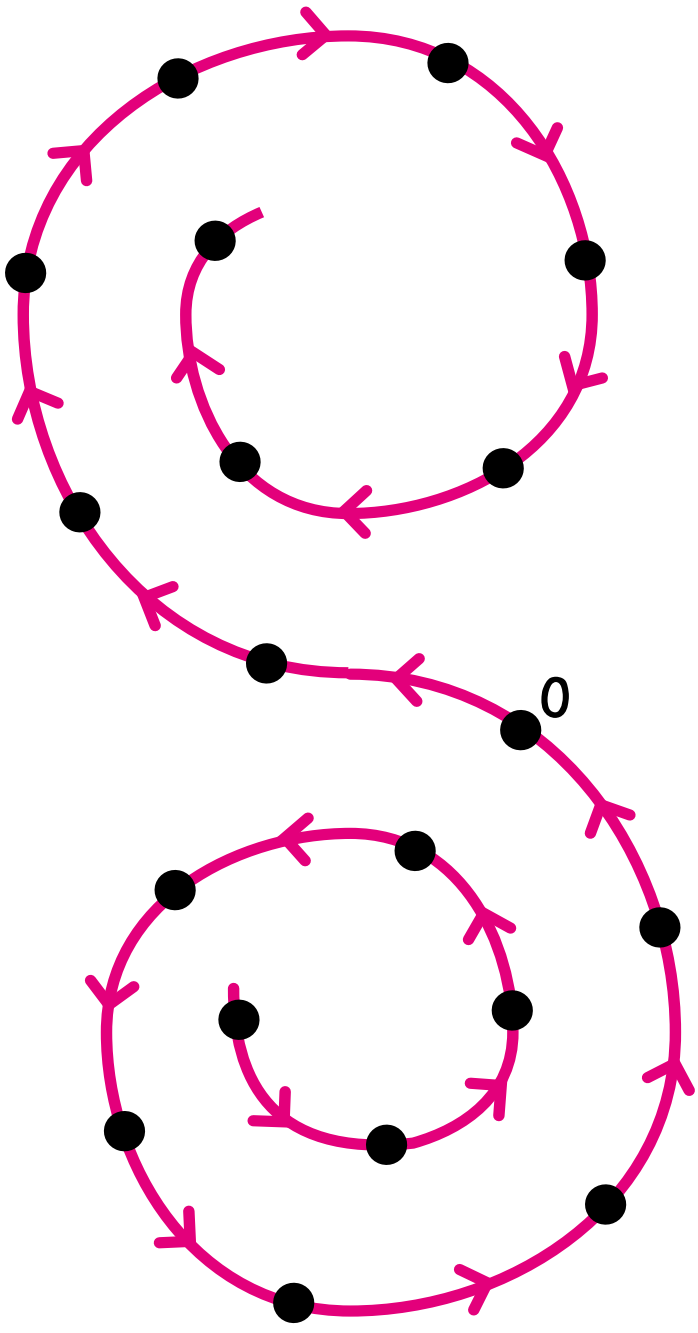
Name _____

Collection of Problems #3

Label the dots.



+8

Complete.

$38 - 16 = \square$

$39 - 17 = \square$

$40 - 18 = \square$

$41 - 19 = \square$

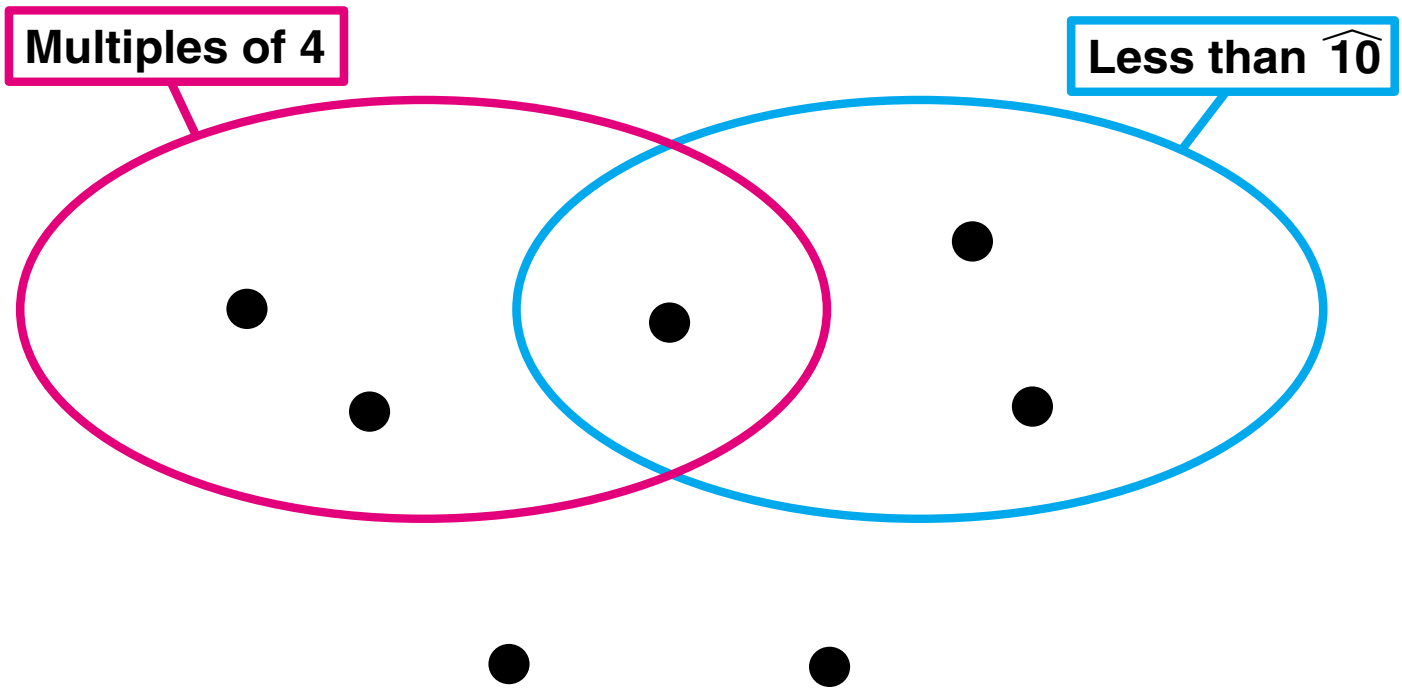
$42 - \square = 22$

$45 - \square = 22$

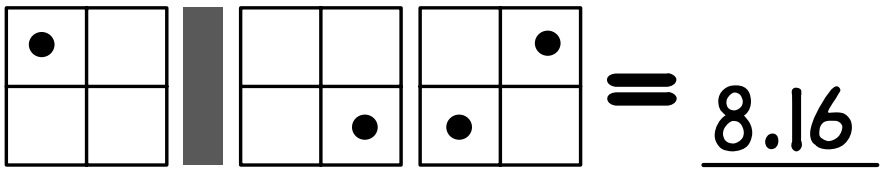
$47 - \square = 22$

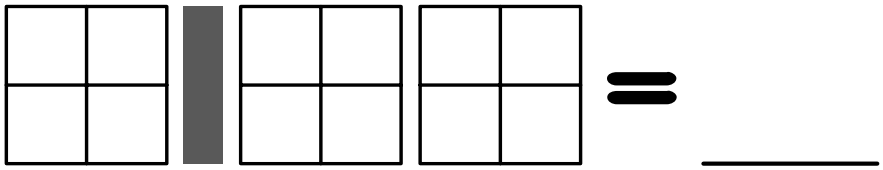
$57 - \square = 22$

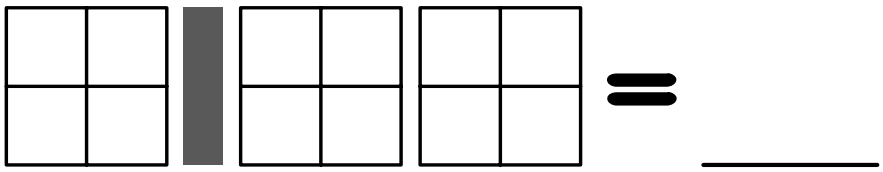
Label the dots. There are many possibilities.

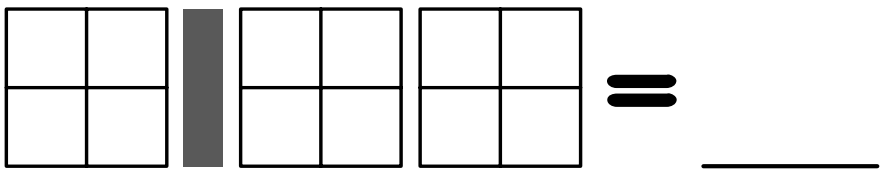


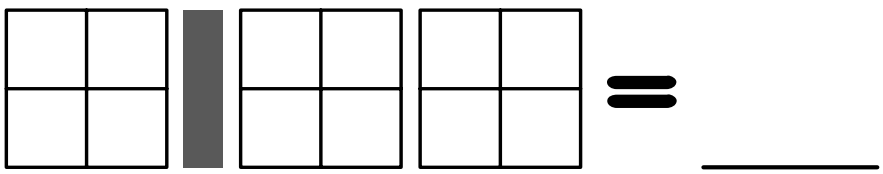
Put any numbers you wish on the Minicomputer with exactly four regular checkers. One solution is given for you.



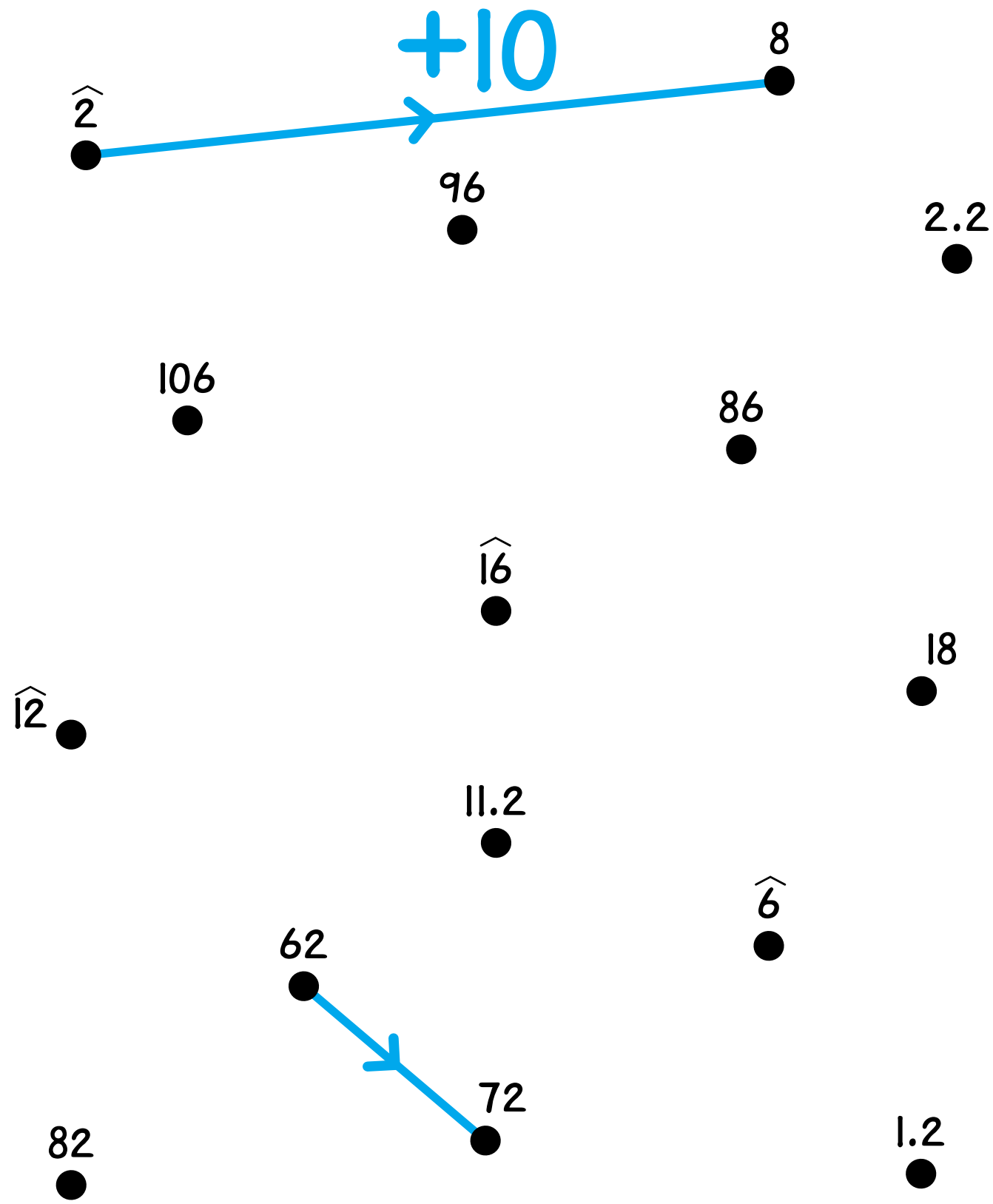




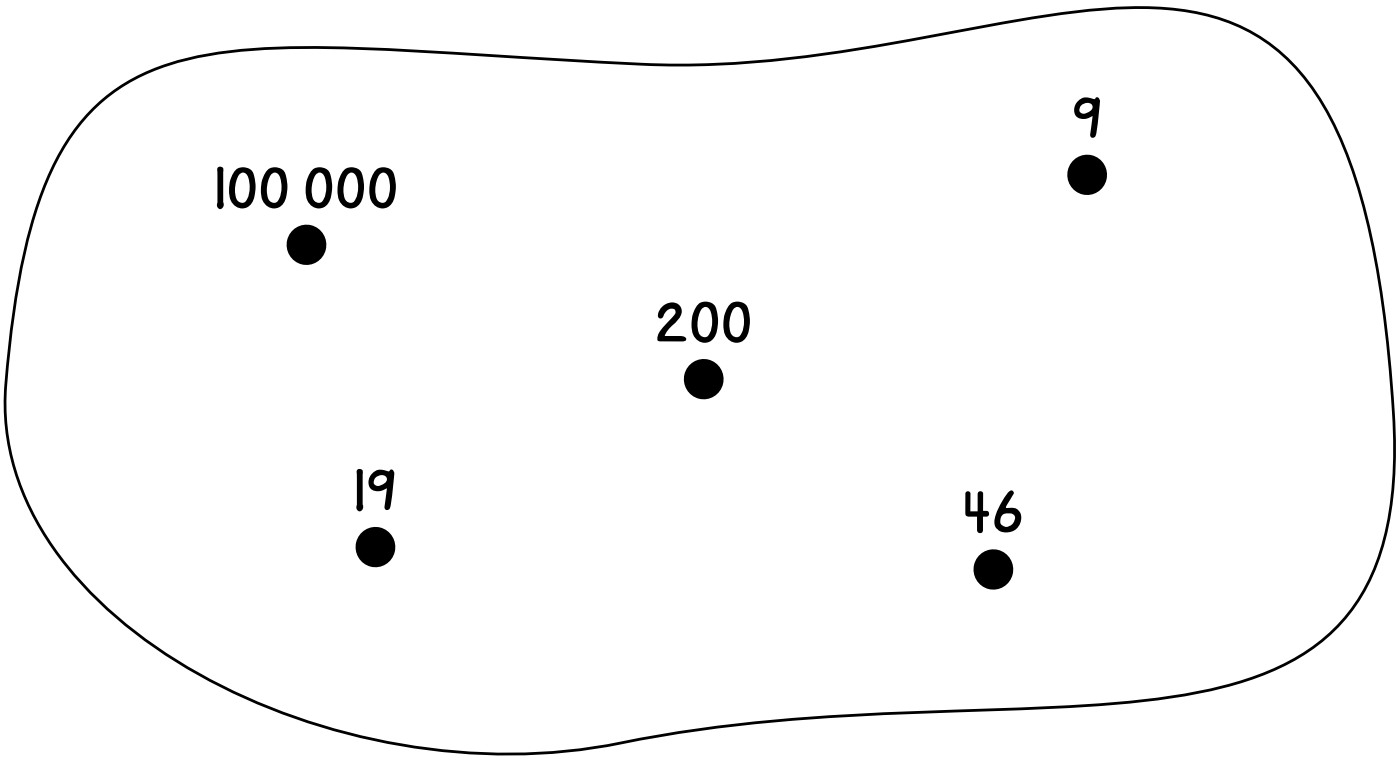




Draw as many +10 arrows as possible in this picture. One arrow is drawn for you.



Put these numbers in the blanks so that the story makes sense.



In the United States, there are _____ cities with population greater than _____ . The state with the most such cities is California with _____ . Texas is second with _____ (more than 10). There are _____ states with no such city.

Fill in the boxes.

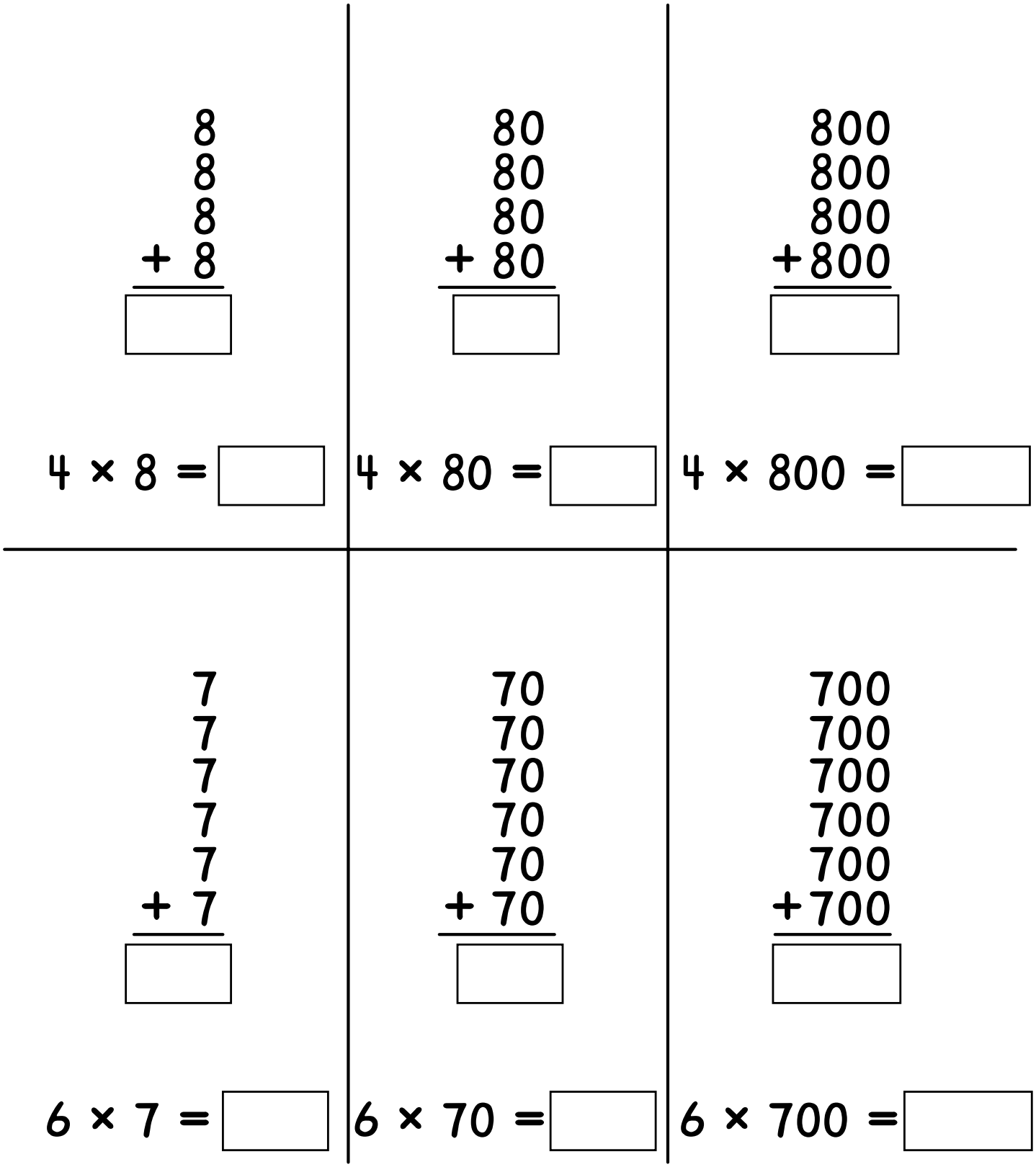


Fig is a secret number.

Clue 1

Fig can be put on this Minicomputer board using one ⑩-checker only.

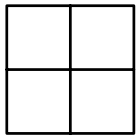


Fig could be _____, _____, _____, or _____.

Clue 2

Fig is on the +6 arrow road that meets the number 8.

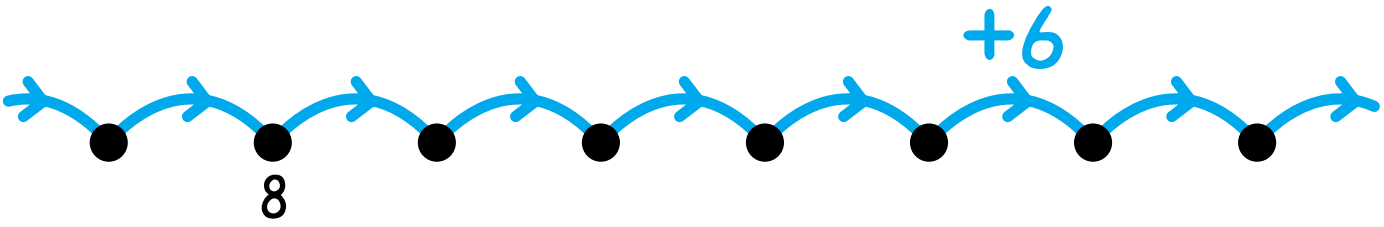
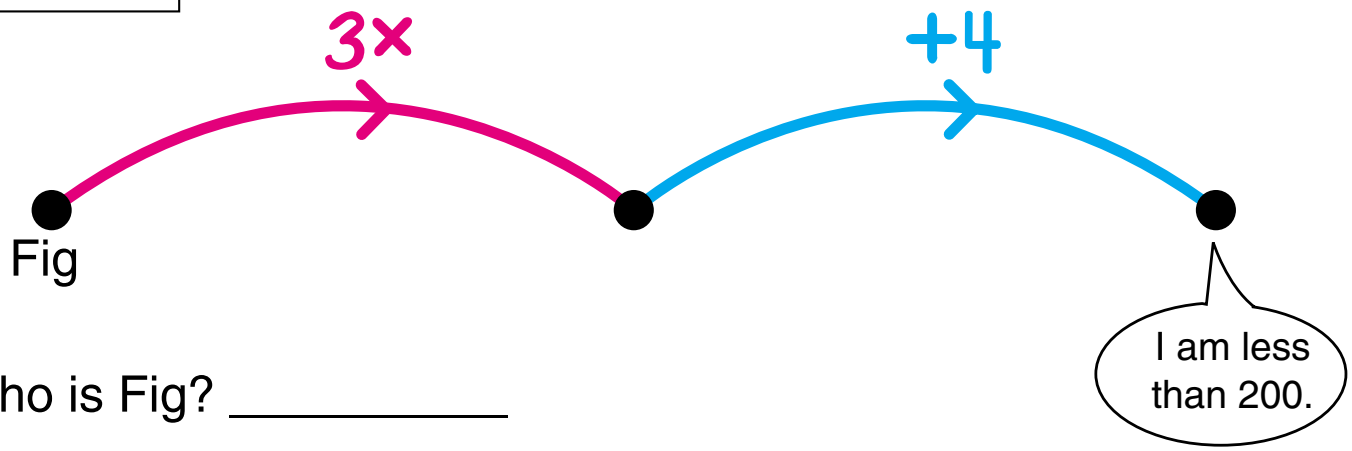


Fig could be _____ or _____.

Clue 3



Who is Fig? _____

Complete the calculations.

$$\begin{array}{r} 236 \\ 384 \\ +\,192 \\ \hline \end{array} \qquad \begin{array}{r} 170 \\ -\,98 \\ \hline \end{array} \qquad \begin{array}{r} 805 \\ -\,549 \\ \hline \end{array}$$

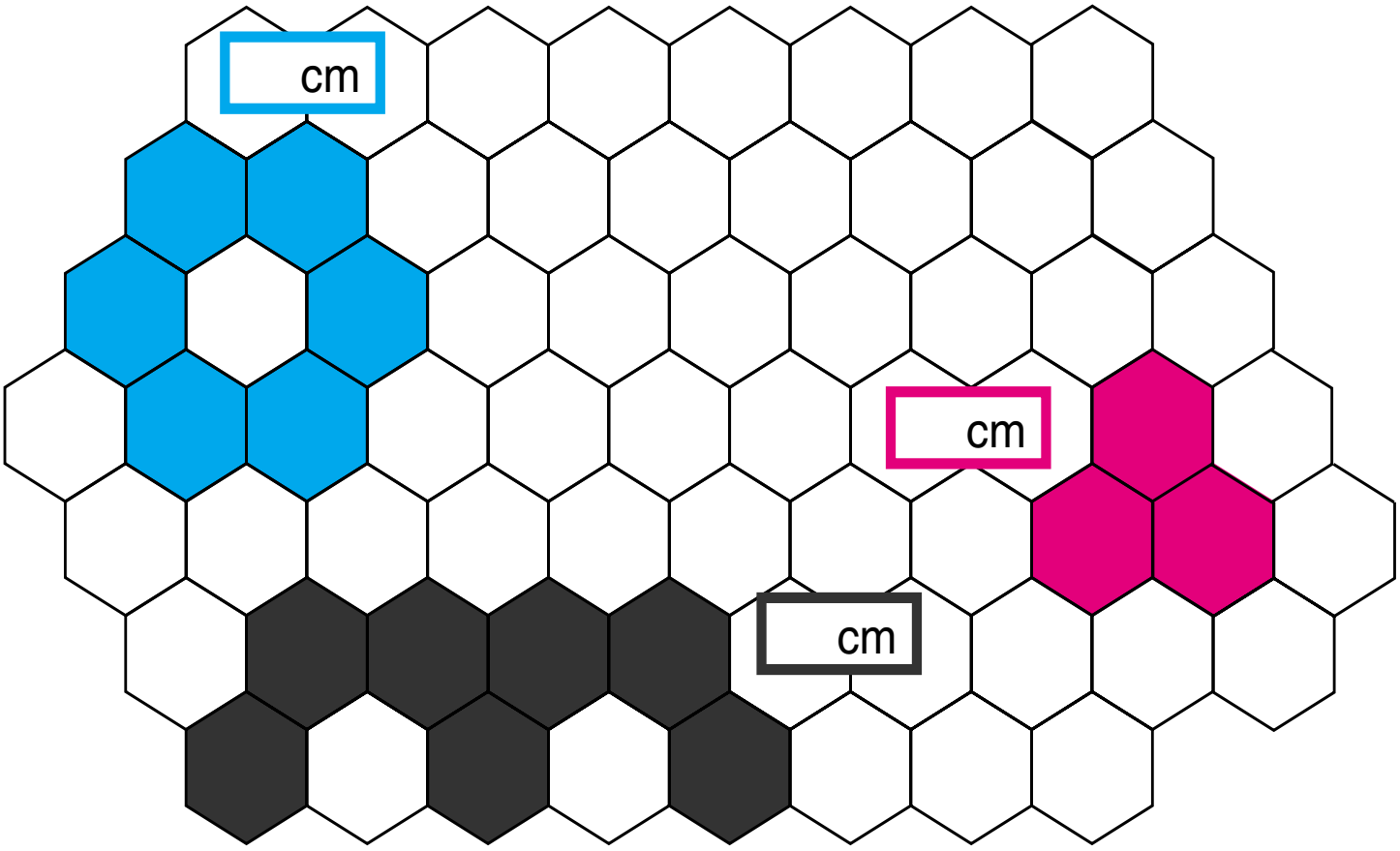
$$\begin{array}{r} 195 \\ +\quad\;\; \\ \hline 437 \end{array} \qquad \begin{array}{r} 219 \\ +\quad\;\; \\ \hline 566 \end{array}$$

$$\begin{array}{r} 83 \\ \times\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 42 \\ \times\ 7 \\ \hline \end{array} \qquad \begin{array}{r} 135 \\ \times\ \ 4 \\ \hline \end{array}$$

$7 \times \square = 28$ $\qquad$ $6 \times \square = 36$

$28 \div 7 = \square$ $\qquad$ $36 \div 6 = \square$

The length of each line segment in this honeycomb is 1 cm. Find the perimeter of each shape and record it in the box of the same color.



Can you color a shape with perimeter 20 cm? _____
Explain.

Can you color a shape with perimeter 15 cm? _____
Explain.

Put each number on the Minicomputer using exactly one regular checker and one negative checker.

7 =

$\hat{7}$ =

18 =

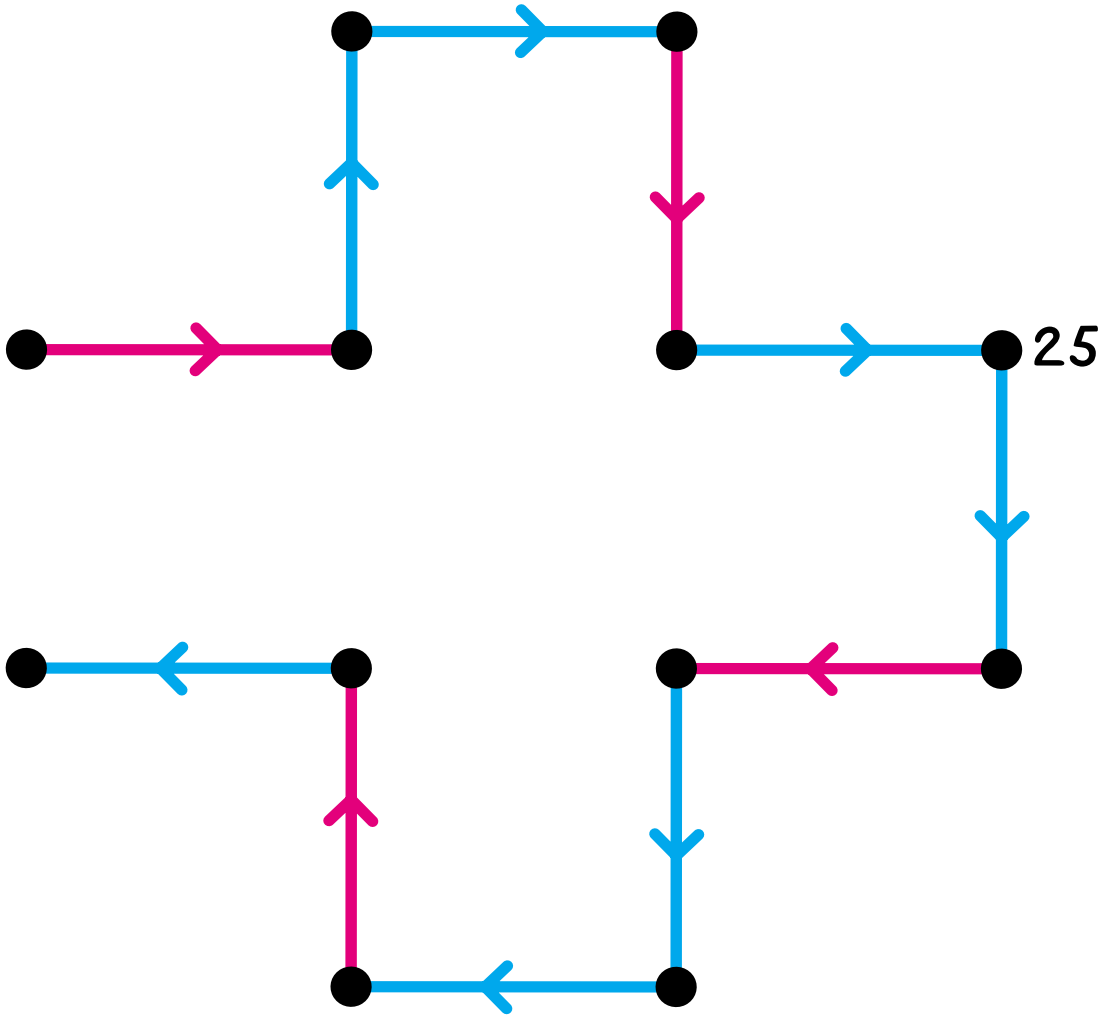
$\hat{18}$ =

32 =

$\hat{32}$ =

Label the dots. Draw as many +8 arrows as possible in the picture.

+6 +2 +8



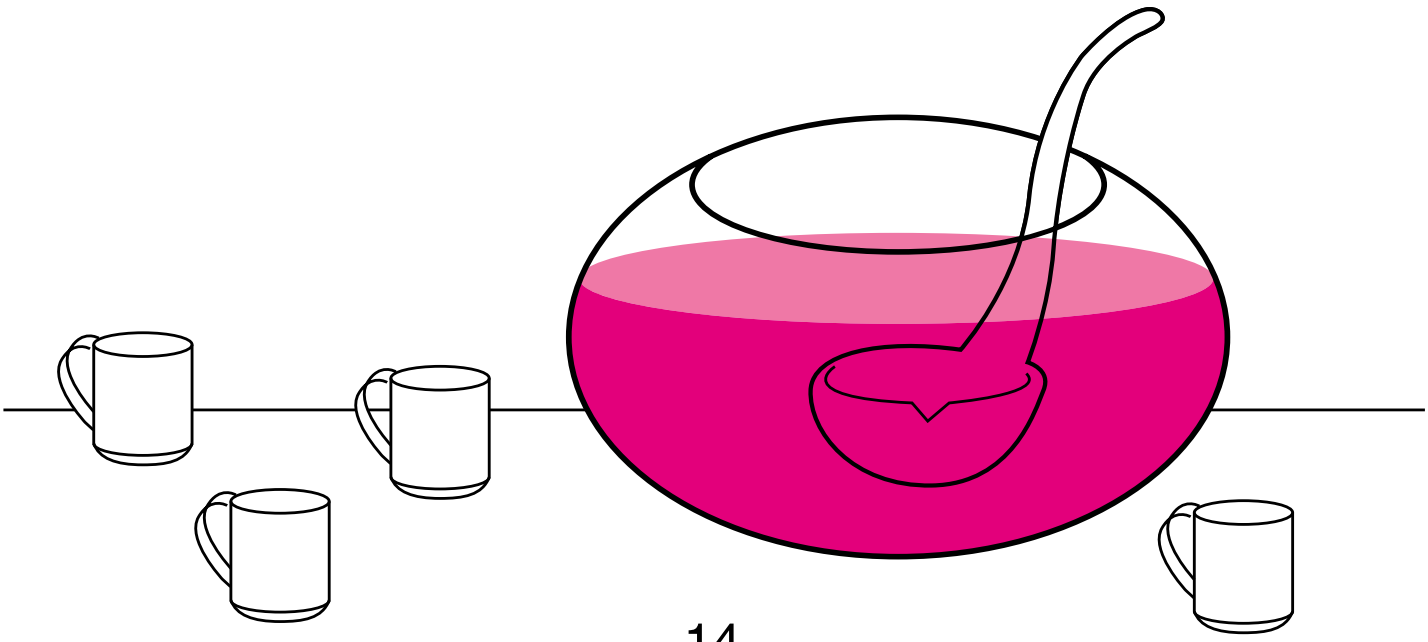
Are there seven +8 arrows in your picture? _____

PUNCH RECIPE

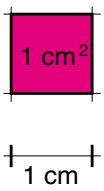
4 liters of ginger ale
2 liters of lemonade
1 liter of orange juice

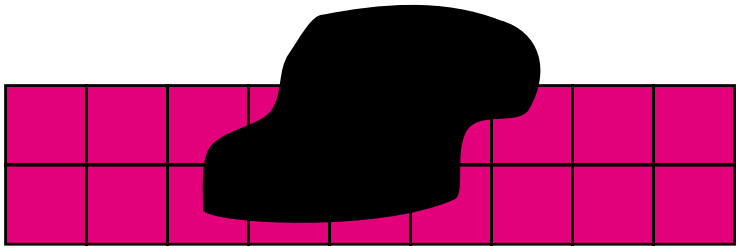
(serves about 20 people)

Anna wants to serve this punch at a party to which 60 people have been invited.
How much ginger ale should she buy? _____ liters
How much lemonade? _____ liters
How much orange juice? _____ liters

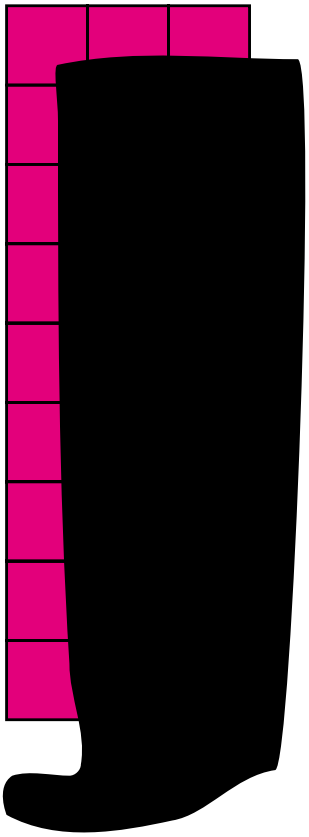


Each red shape is a rectangle, but part of each is covered.
What is the area of each rectangle?
What is the perimeter of each rectangle?

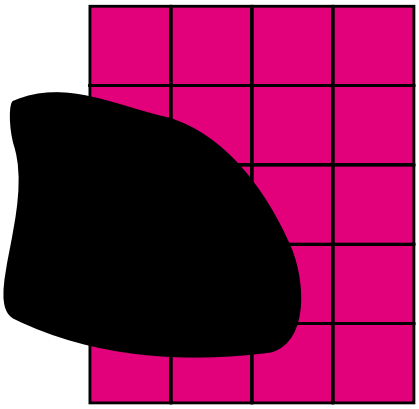




Area
cm²
Perimeter
cm

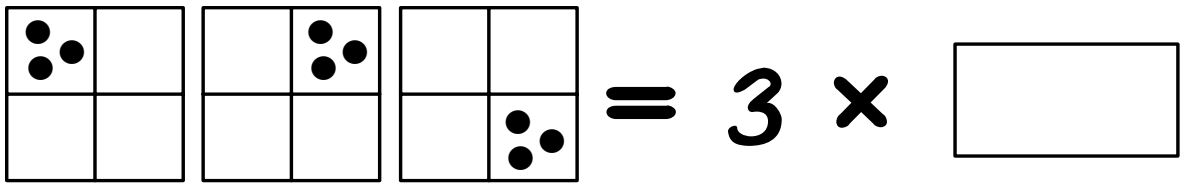


Area
cm²
Perimeter
cm

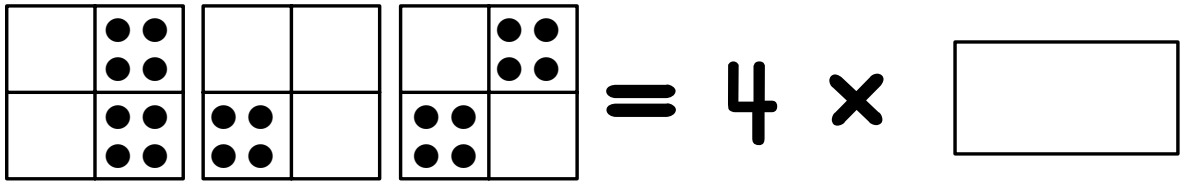


Area
cm²
Perimeter
cm

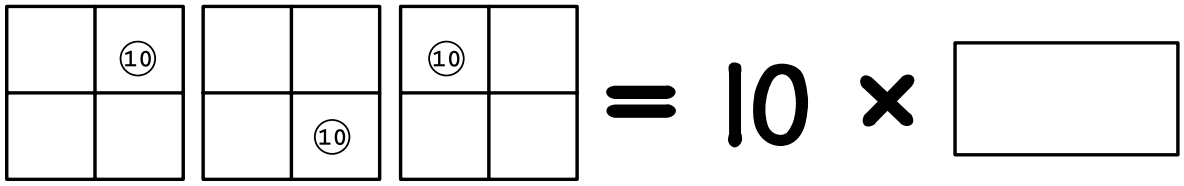
Complete.



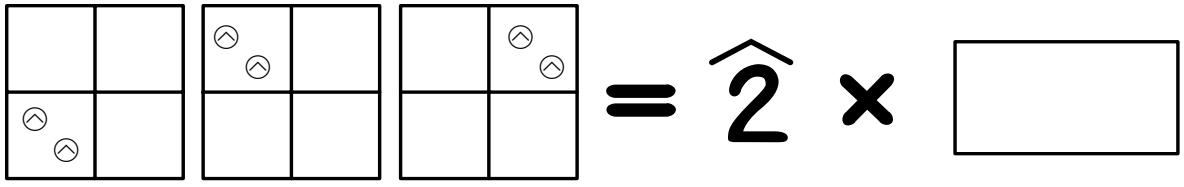
= 3 × ☐



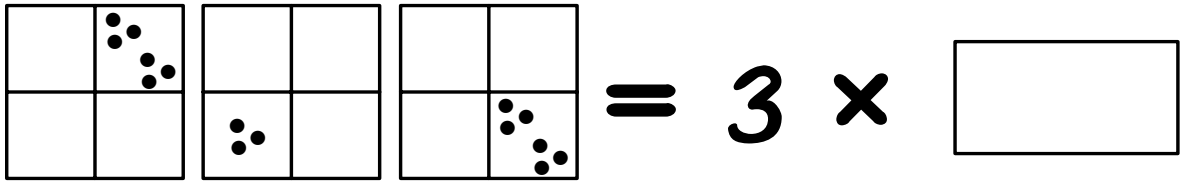
= 4 × ☐



= 10 × ☐

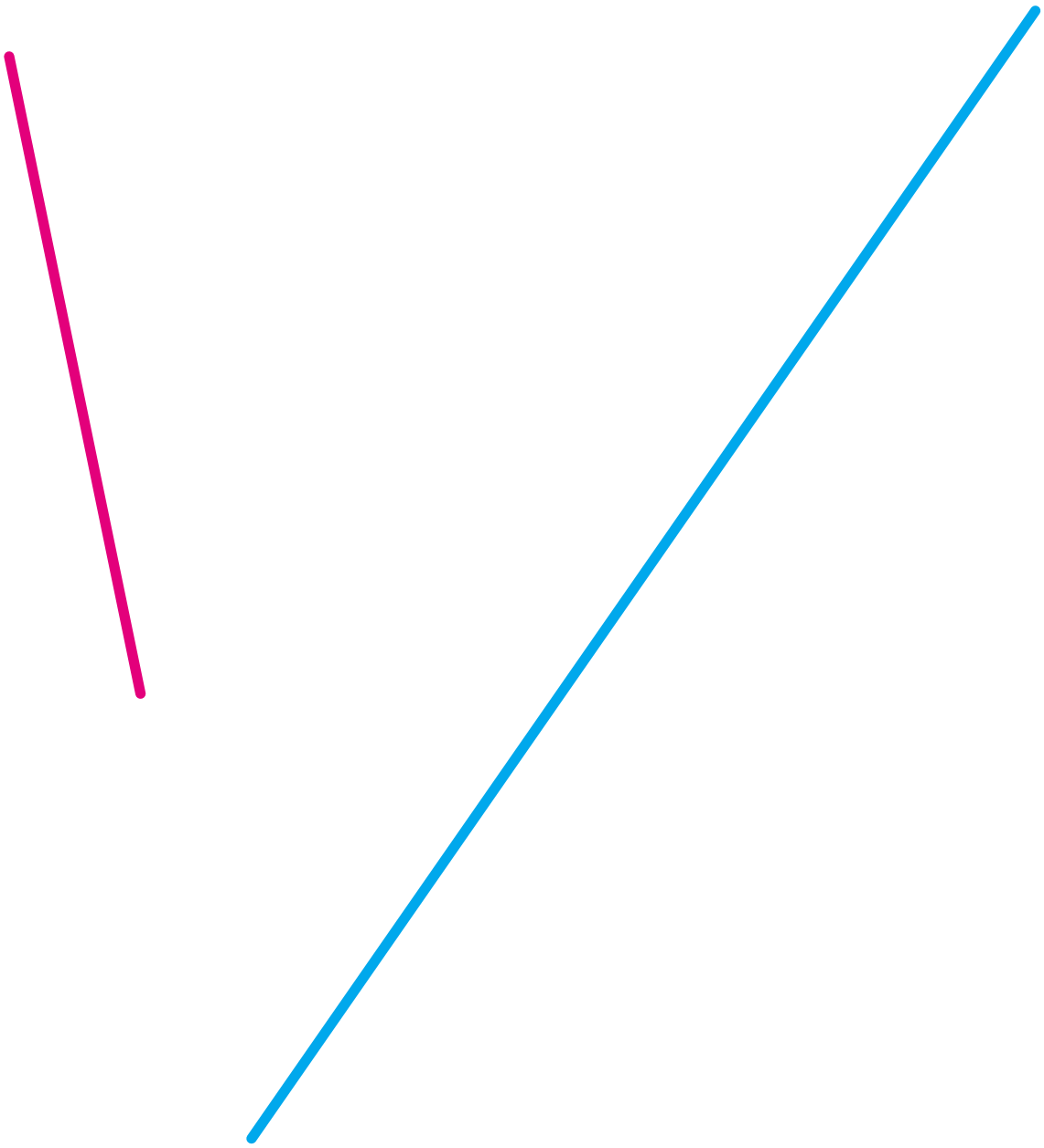


= 2 × ☐

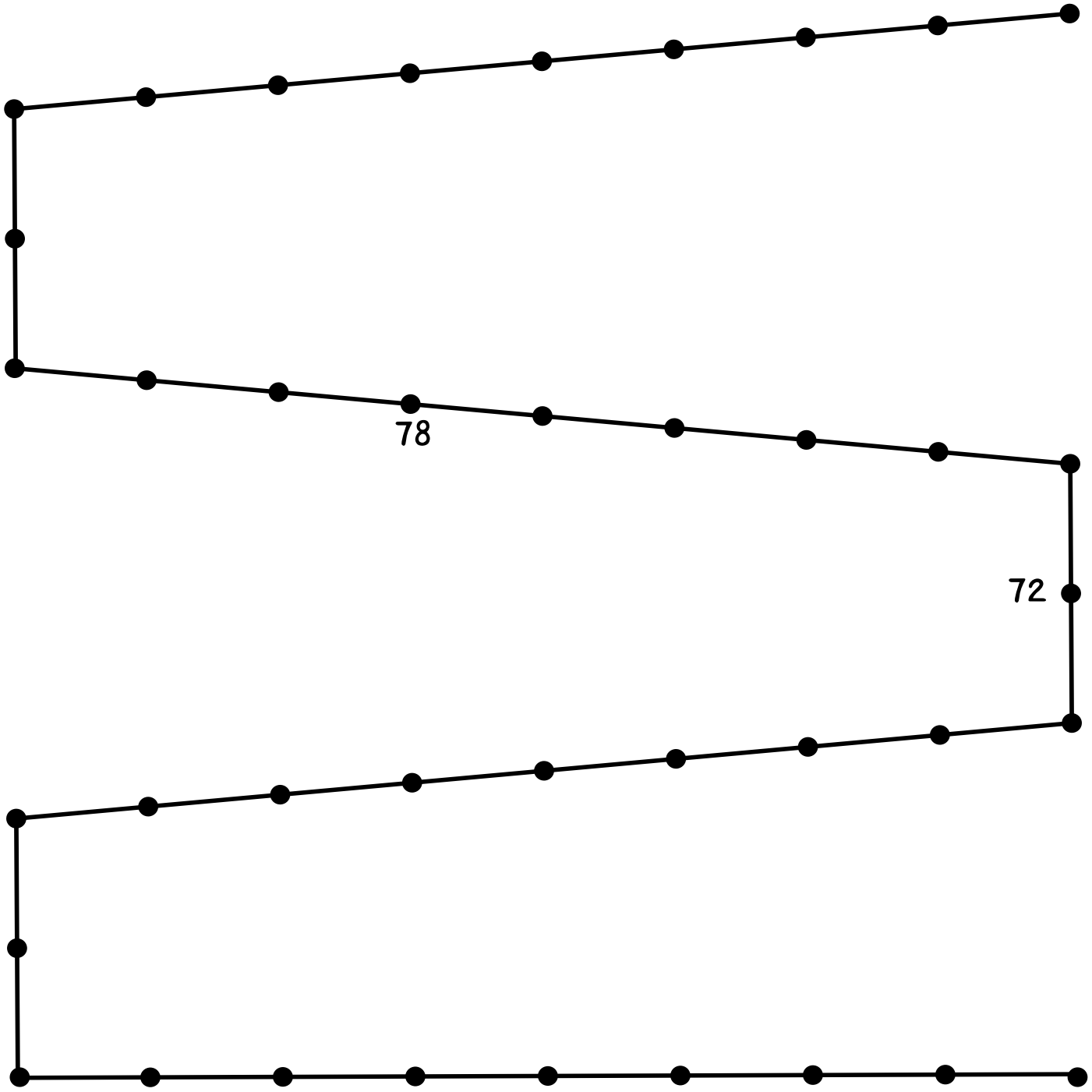


= 3 × ☐

Draw a line segment that is parallel to the red line segment and that crosses the blue segment.



Label the dots on this zigzag number line.



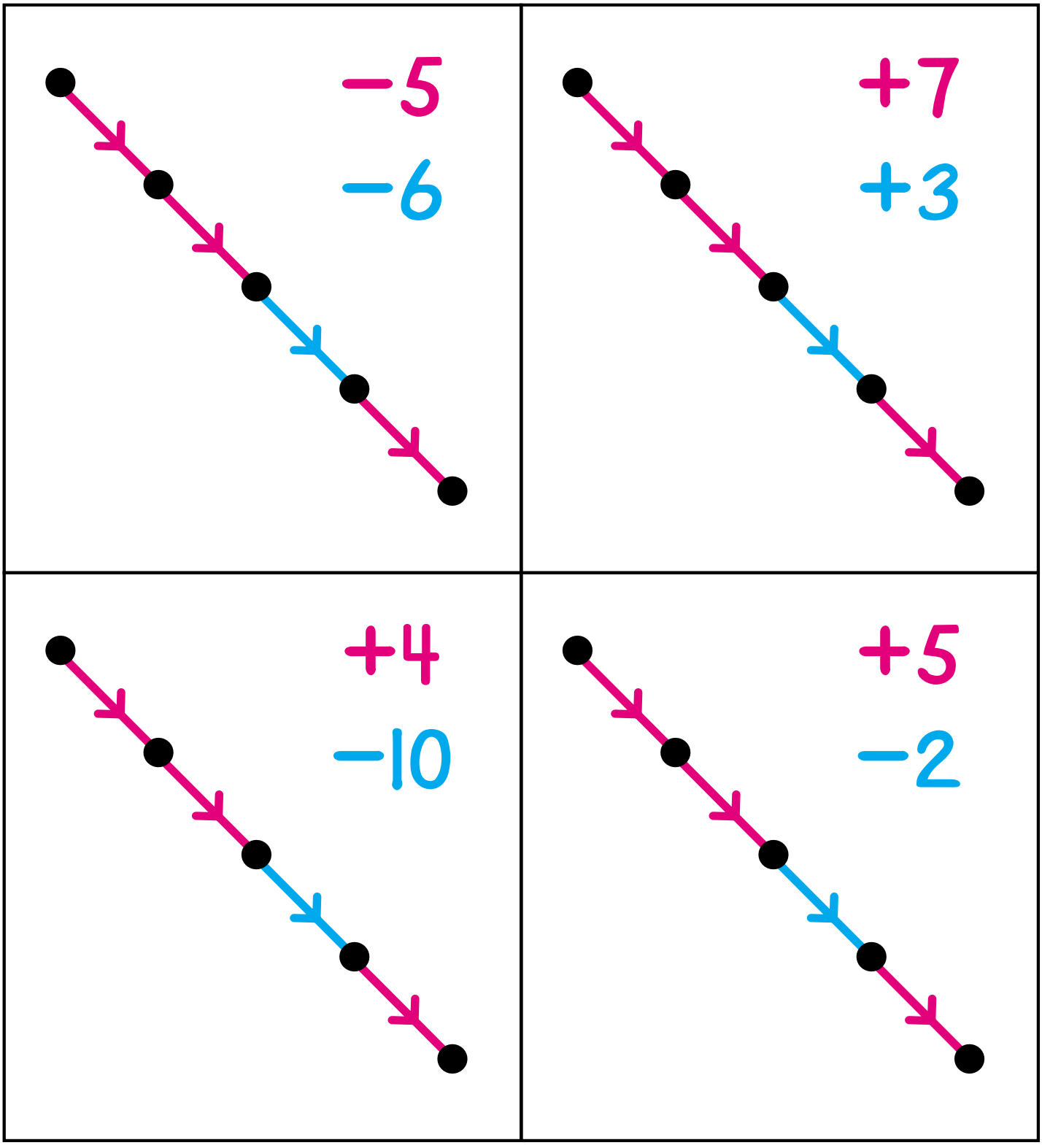
72 is a multiple of 6; 72 is also a multiple of 8.

List all the multiples of 6 between 52 and 92.

List all the multiples of 8 between 52 and 92.

---

28 is the greatest number in each picture. Find and label the dot for 28. Then label the other dots.



Complete.

$\frac{1}{2} \times 24 =$ _____

$\frac{1}{2} \times 34 =$ _____

$\frac{1}{2} \times 44 =$ _____

$\frac{1}{2} \times 54 =$ _____

$\frac{1}{2} \times 64 =$ _____

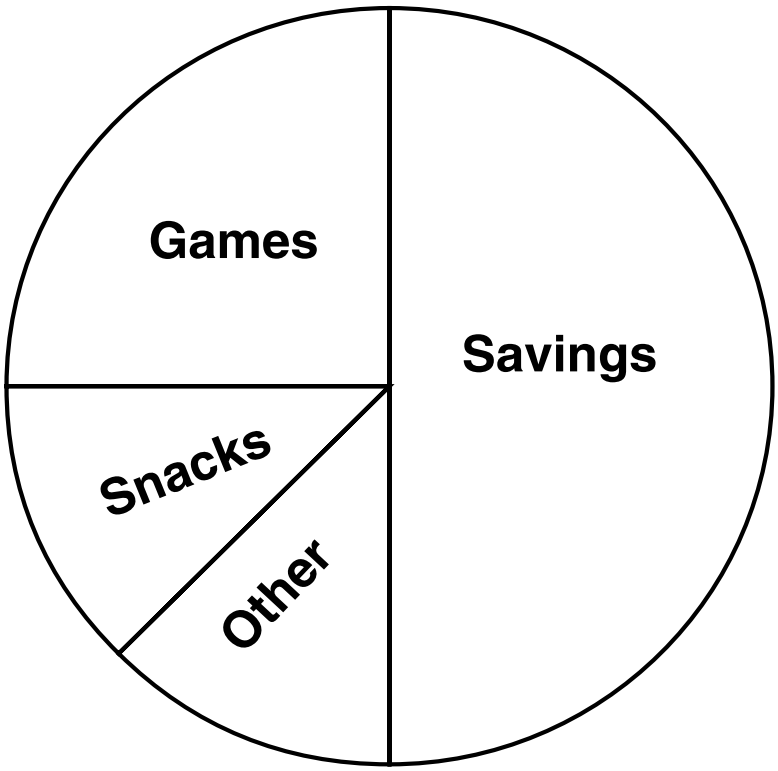
$\frac{1}{2} \times 74 =$ _____

$\frac{1}{2} \times 84 =$ _____

$\frac{1}{2} \times 184 =$ _____

$\frac{1}{2} \times 194 =$ _____

Monica receives $20 each month for her allowance. She made this picture to show how she usually spends her allowance.



How much does Monica put in savings each month? _____

How much does Monica spend each month on

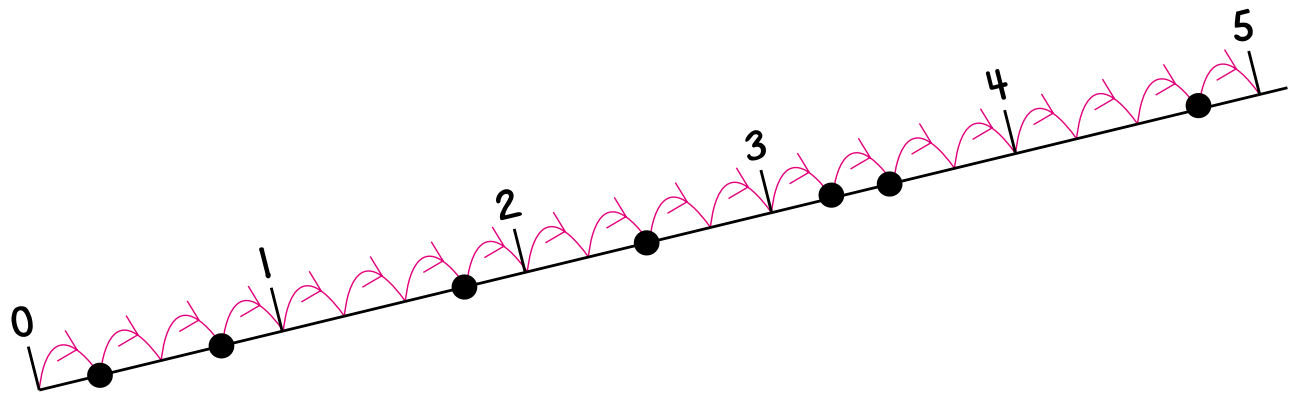
games? _____

snacks? _____

other? _____

In one year, what amount does Monica put in savings? _____

Jim is playing in some of Sasquatch's tracks. The red arrows are for his steps. Jim takes four steps to get to Sasquatch's next step. Label the dots.



How many steps does it take Jim to reach Sasquatch's 5th step? _____
What is another way we could label the mark for 5? _____

How many steps does it take Jim to reach Sasquatch's 7th step? _____
What is another way we could label the mark for 7? _____

Put an operation (+, –, x, or ÷) in each box to make true number sentences.

(25 ☐ 35) ☐ 15 = 45

20 ☐ (16 ☐ 2) = 12

(12 ☐ 6) ☐ 28 = 100

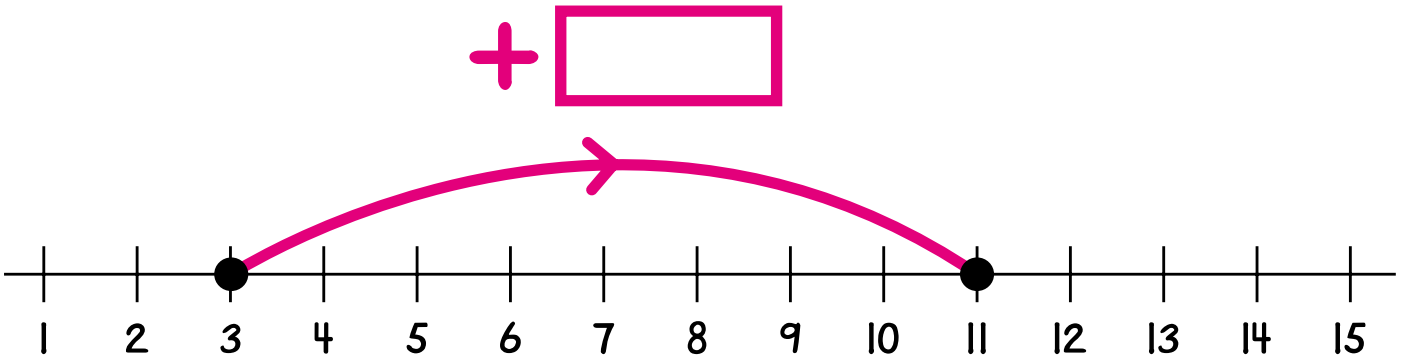
(36 ☐ 10) ☐ 4 = 104

328 ☐ (13 ☐ 6) = 250

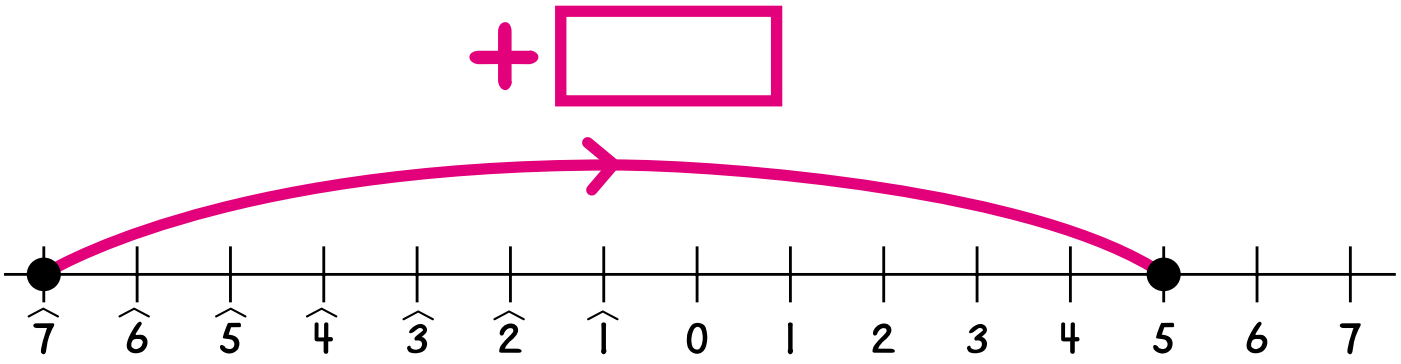
(475 ☐ 256) ☐ 341 = 390

(50 ☐ 10) ☐ 12 = 60

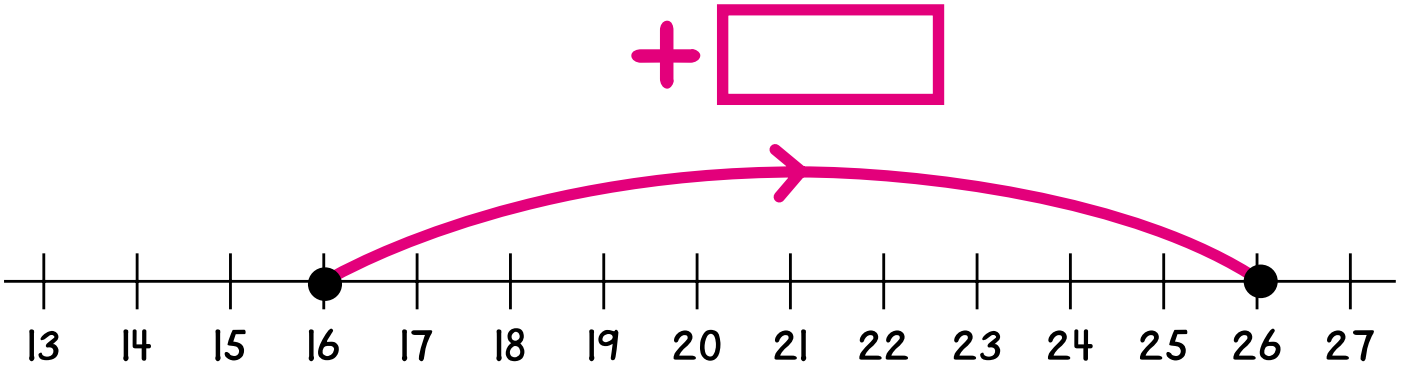
Fill in the boxes for the arrows and answer the questions.



What number is halfway between 3 and 11 on the number line? _____



What number is halfway between $\widehat{7}$ and 5 on the number line? _____



What number is halfway between 16 and 26 on the number line? _____

June

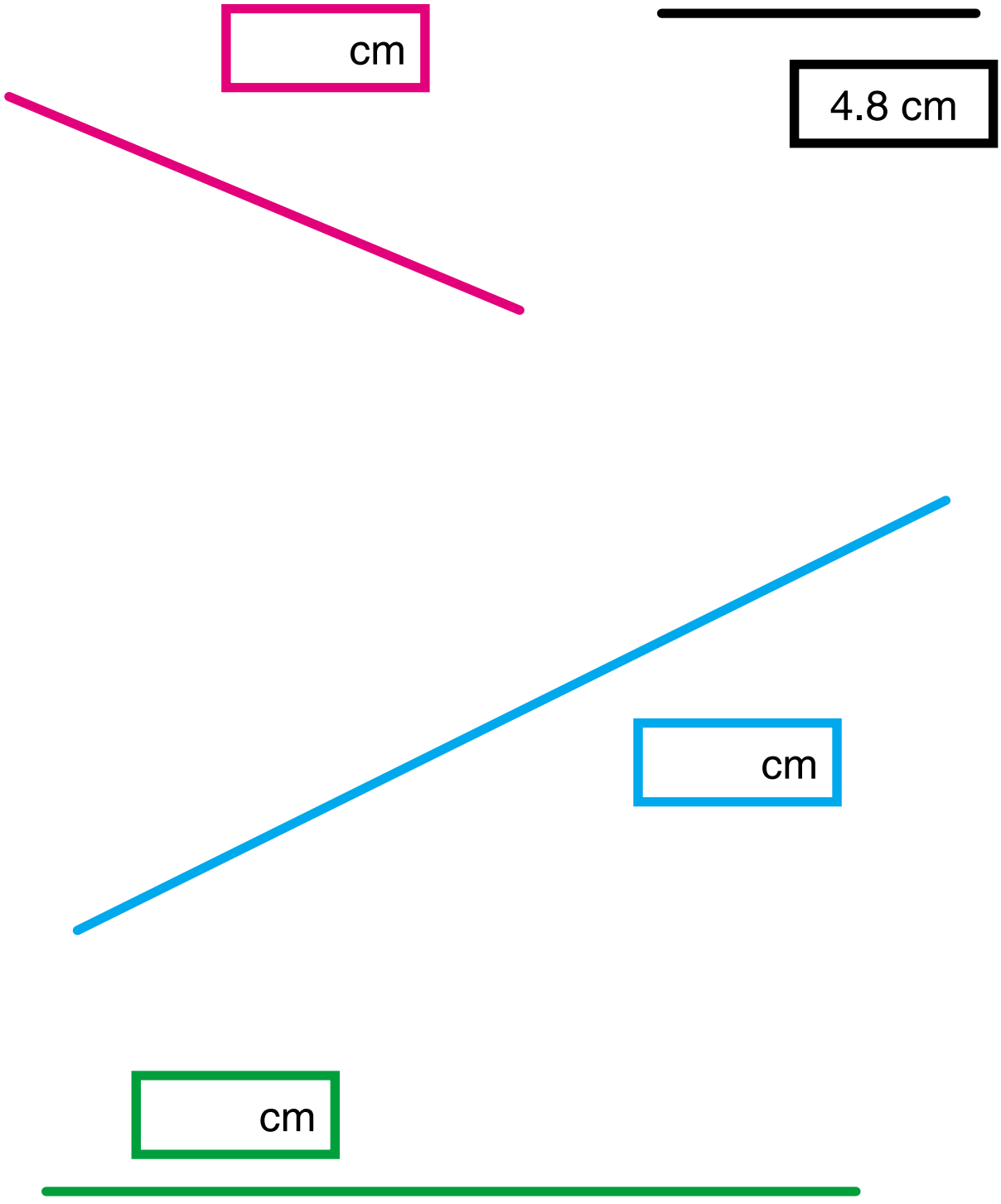
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

July

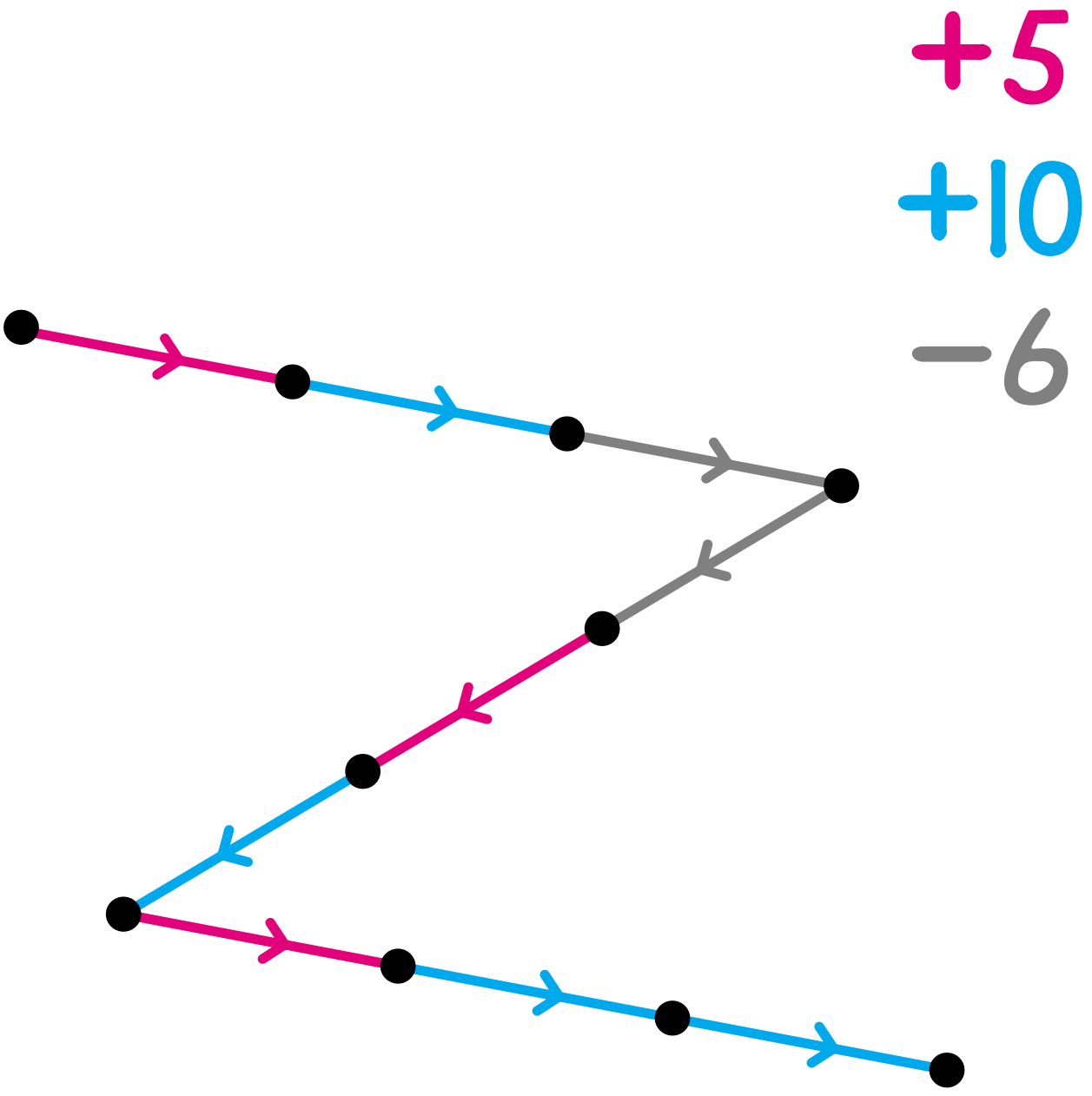
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

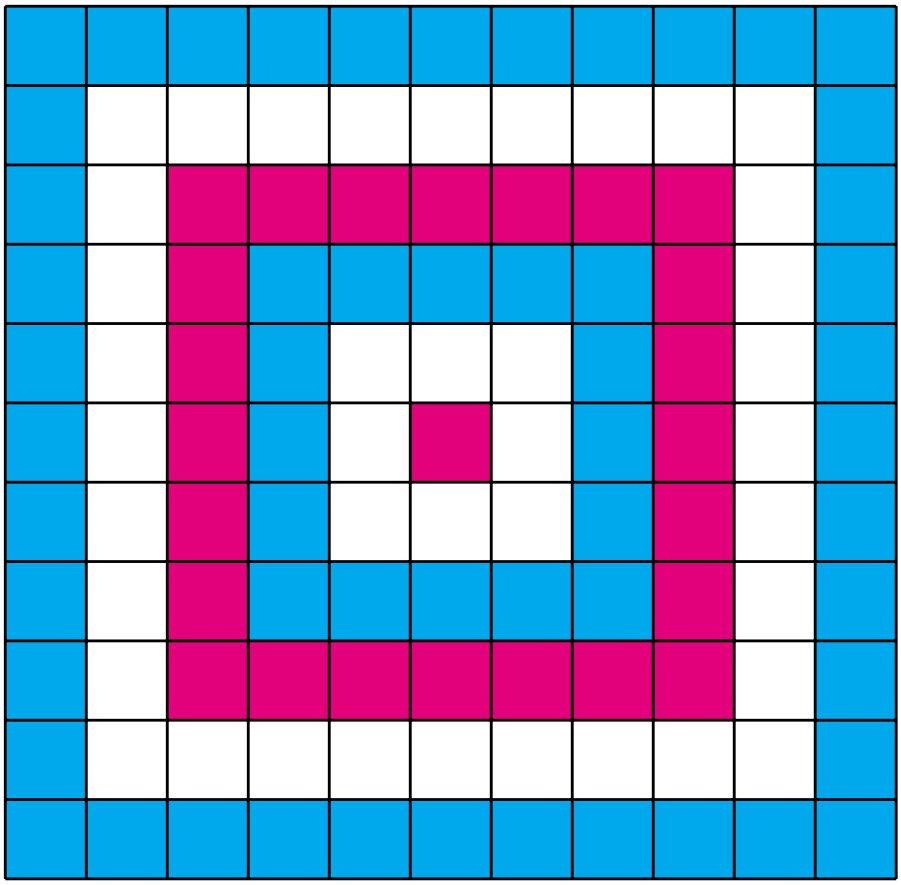
Dan is a camp director. He wants to set up four-day camp sessions during the months of June and July. No two sessions can overlap, and Dan cannot use July 3, 4, or 5 as camp days. What is the most number of sessions Dan can schedule? _____

Using a ruler, measure each line segment and record its length in centimeters. Put a dot at the middle of each line segment. One is done for you.



20 and 24 are in this picture. Locate 20 and 24, and then label all the dots.



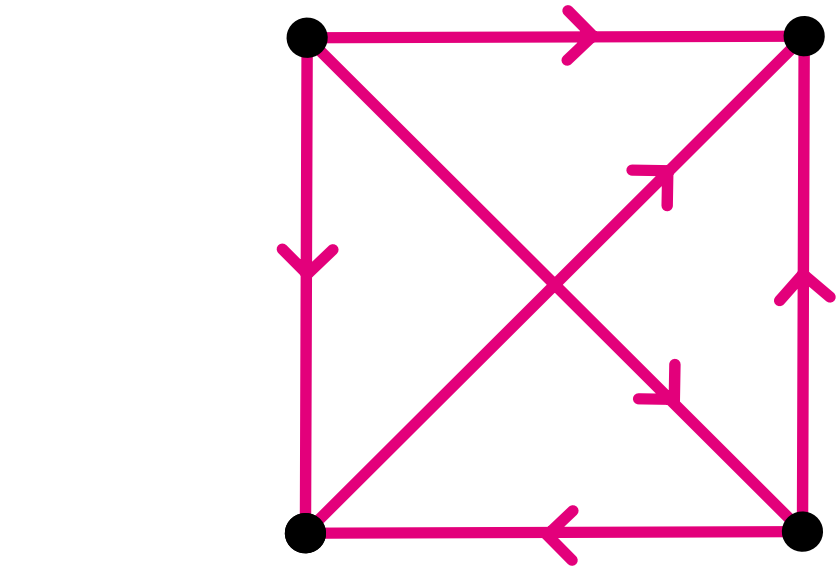


In this tile design, there is a red tile in the center.
The first layer of tiles surrounding it is white. How many tiles are there in the first layer? _____
How many tiles are in the second layer (blue)? _____
in the third layer (red)? _____
in the fourth layer (white)? _____
in the fifth layer (blue)? _____
If the pattern were continued, how many tiles would be in the sixth layer? _____
in the tenth layer? _____

Put these numbers in the arrow picture.

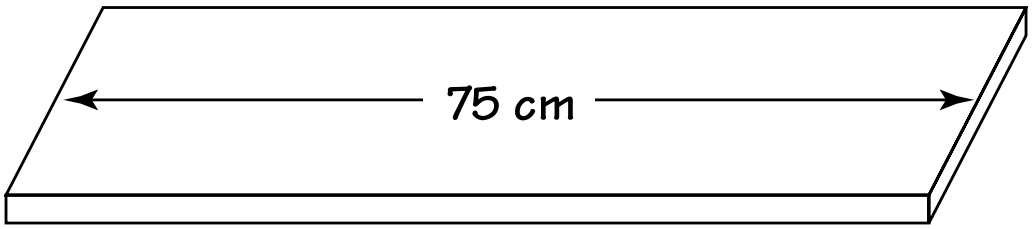
2.34 2.4 2.07 3

is less than

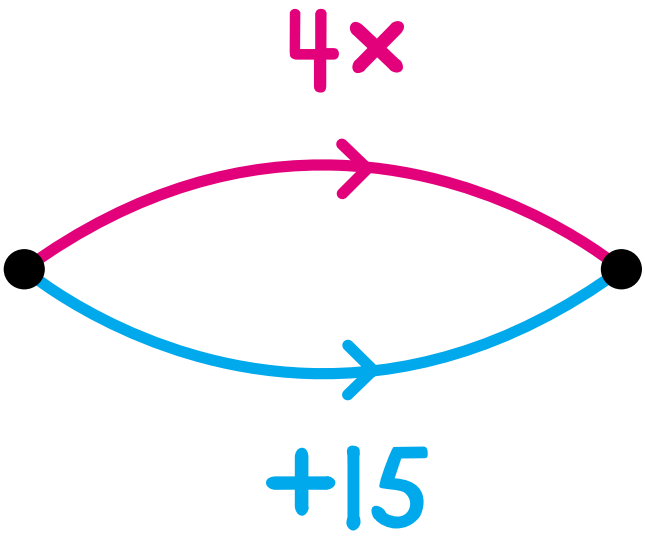


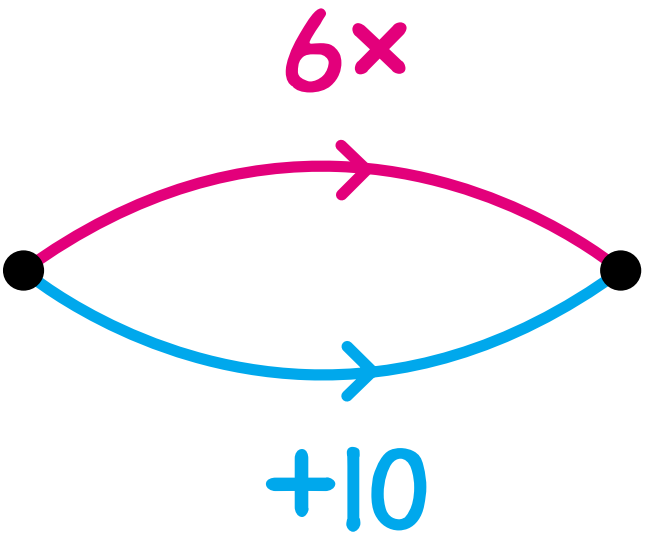
Jane and Robert rake leaves for their neighbor one Saturday. Jane works 2 hours and Robert works 3 hours. If they are paid $10 altogether, how much should each receive? Explain.

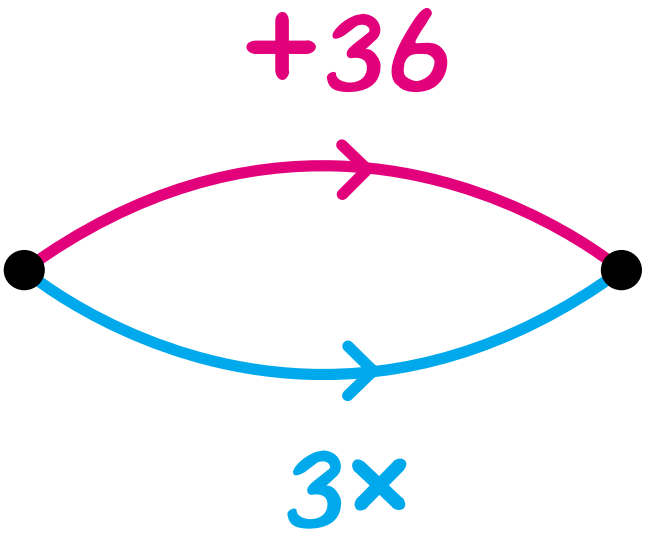
Jacob wants to cut a piece of wood 75 cm long into two pieces. He needs one piece to be twice as long as the other. How long should each piece be? Explain.



Label the dots.



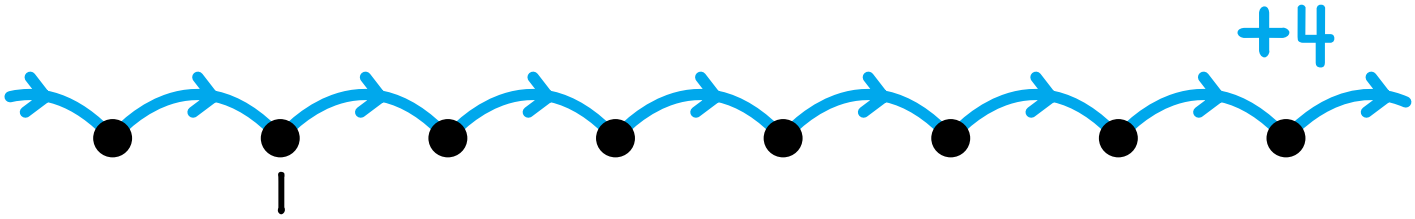




Tuf is a secret number.

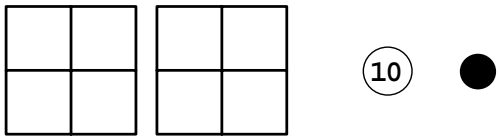
Clue 1

Tuf is on the +4 arrow road that meets the number 1.



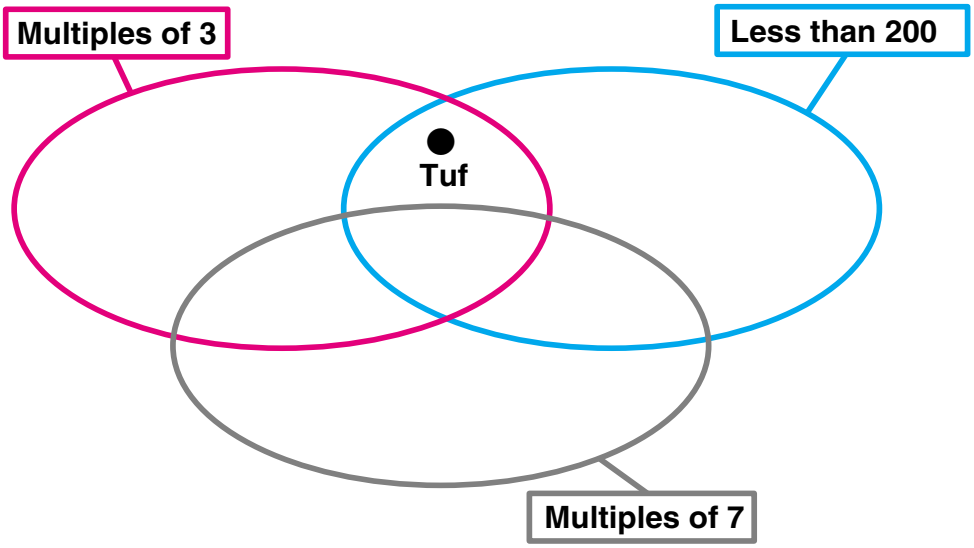
Clue 2

Tuf can be put on this Minicomputer with exactly one ⑩-checker and one regular checker.



Tuf could be _____, _____, _____, _____, _____, _____, or _____.

Clue 3



Who is Tuf? _____