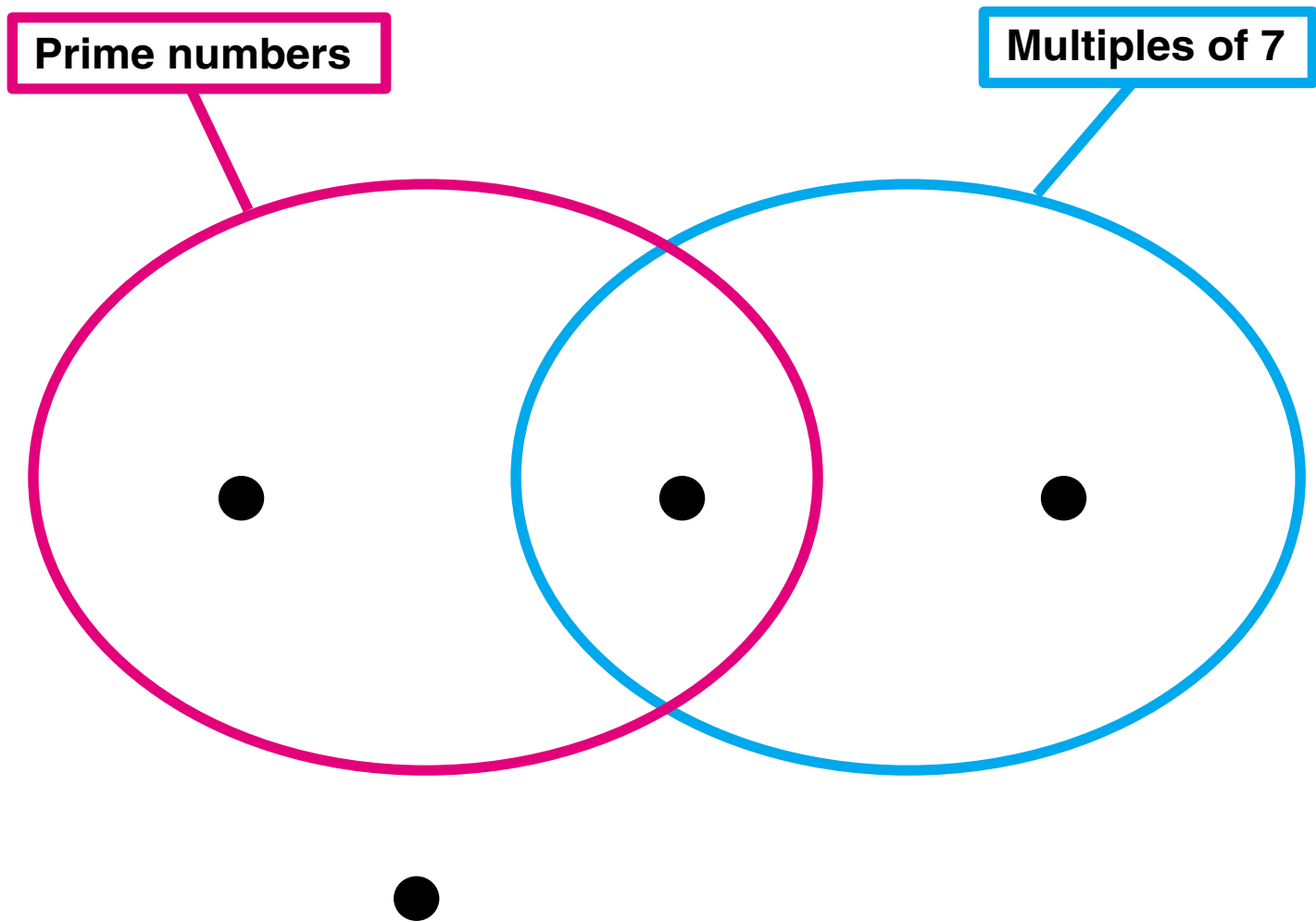


Name _____

Set
of
Problems #2

Put these numbers in their correct places in this string picture.

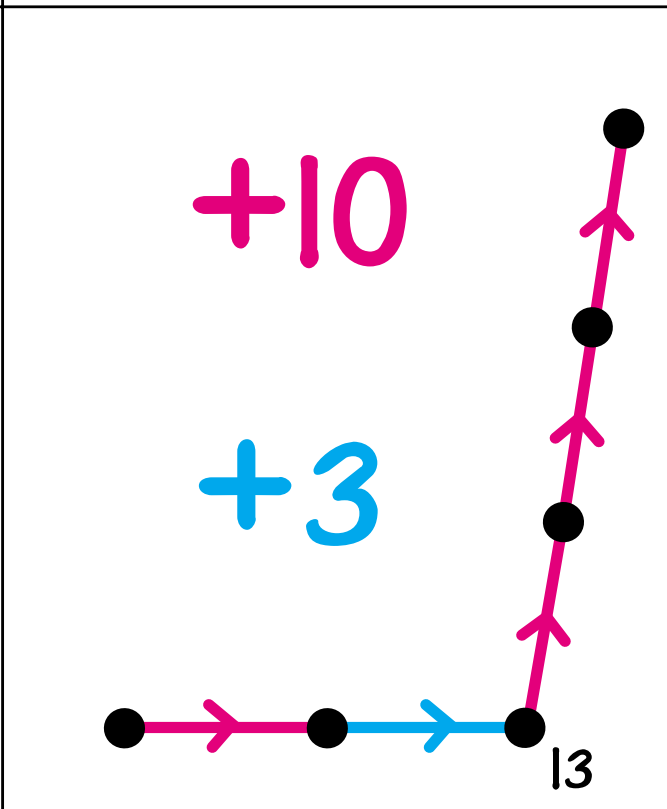
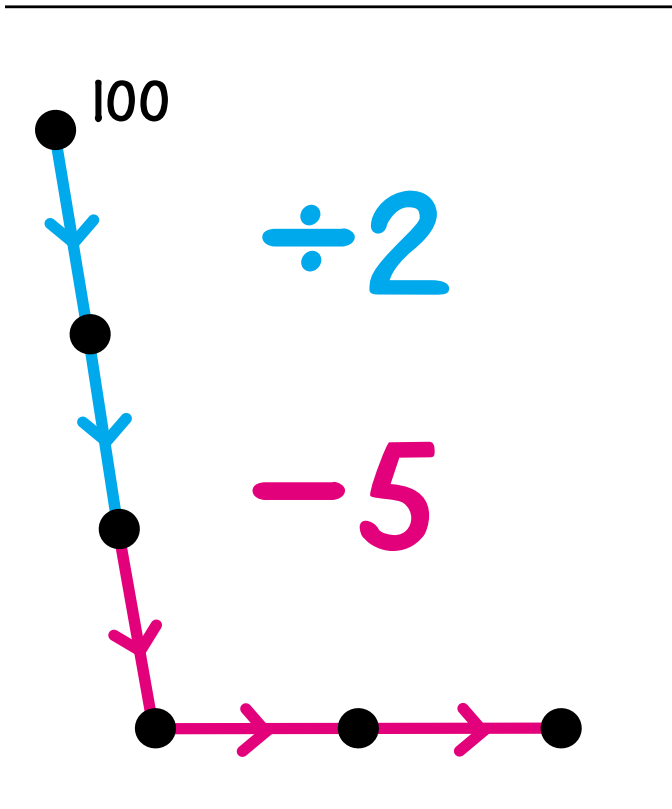
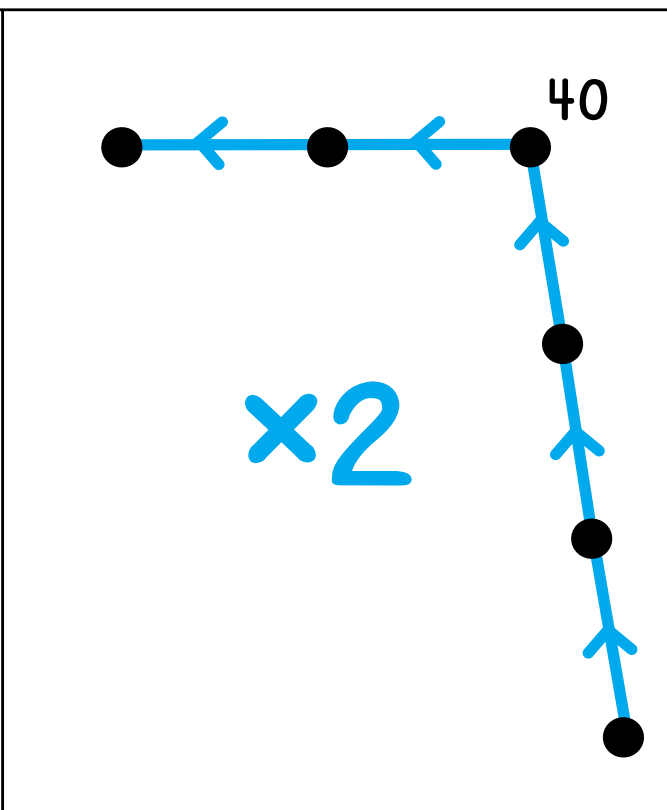
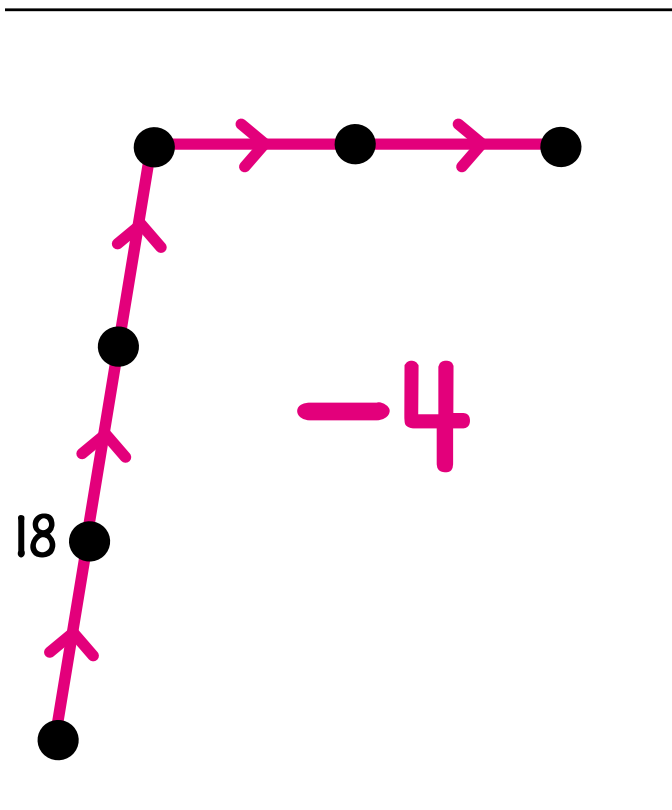
21 7 15 11



Put two more numbers of your choice in the picture.

10 is in each of these pictures.

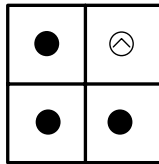
In each picture, label all of the dots and circle the dot for 10.



Simon is a secret number.

Clue 1

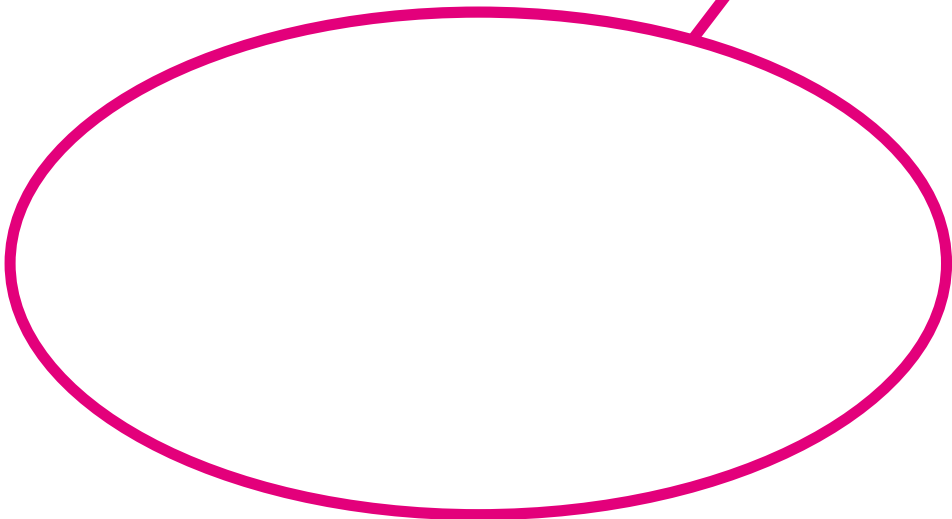
Simon can be shown on this Minicomputer by taking off one of the checkers.



Simon could be _____, _____, _____, or _____.

Clue 2

Odd numbers



Simon



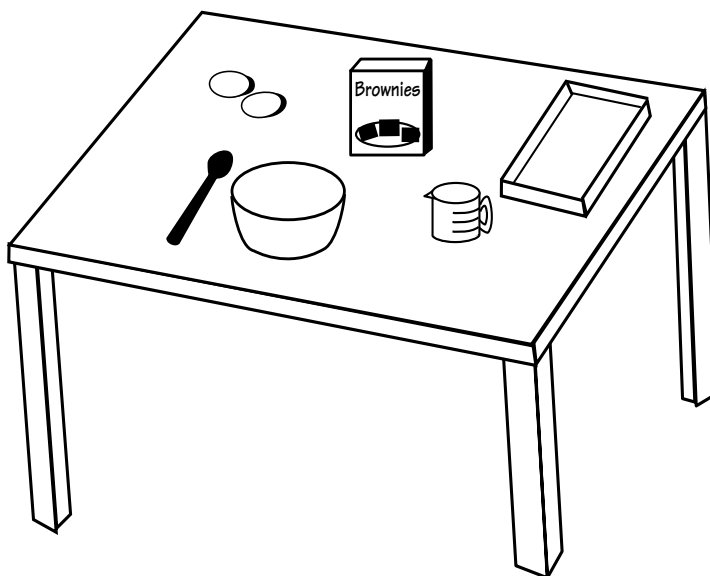
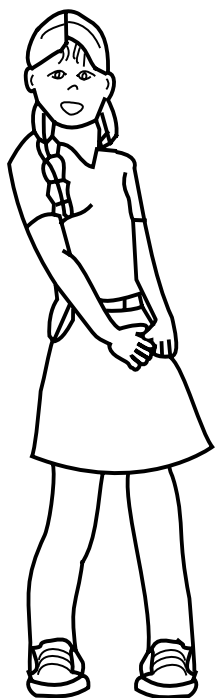
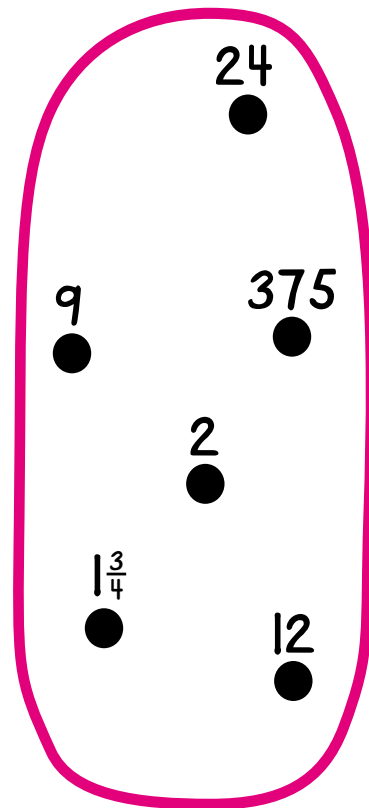
Who is Simon? _____

Fill in the boxes.

	$\hat{1}2$	$\hat{1}1$	$\hat{1}0$	$\hat{9}$	$\hat{8}$	$\hat{7}$	$\hat{6}$	$\hat{5}$	$\hat{4}$	$\hat{3}$	$\hat{2}$	$\hat{1}$	0	1	2	3	4	5	6	7	8	9	10	11	12		
$\hat{1}3$																											$\hat{1}3$
$\hat{1}4$																											$\hat{1}4$
$\hat{1}5$																											$\hat{1}5$
$\hat{1}6$																											$\hat{1}6$
$\hat{1}7$																											$\hat{1}7$
$\hat{1}8$																											$\hat{1}8$
$\hat{1}9$																											$\hat{1}9$
$\hat{2}0$																											$\hat{2}0$
$\hat{2}1$																											$\hat{2}1$
$\hat{2}2$																											$\hat{2}2$
$\hat{2}3$																											$\hat{2}3$
$\hat{2}4$																											$\hat{2}4$
$\hat{2}5$																											$\hat{2}5$
$\hat{2}6$																											$\hat{2}6$
$\hat{2}7$																											$\hat{2}7$
$\hat{2}8$																											$\hat{2}8$
$\hat{2}9$																											$\hat{2}9$
$\hat{3}0$																											$\hat{3}0$
$\hat{3}1$																											$\hat{3}1$
$\hat{3}2$																											$\hat{3}2$
$\hat{3}3$																											$\hat{3}3$
$\hat{3}4$																											$\hat{3}4$
$\hat{3}5$																											$\hat{3}5$
$\hat{3}6$																											$\hat{3}6$
$\hat{3}7$																											$\hat{3}7$
$\hat{3}8$																											$\hat{3}8$
$\hat{3}9$																											$\hat{3}9$
$\hat{4}0$																											$\hat{4}0$

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

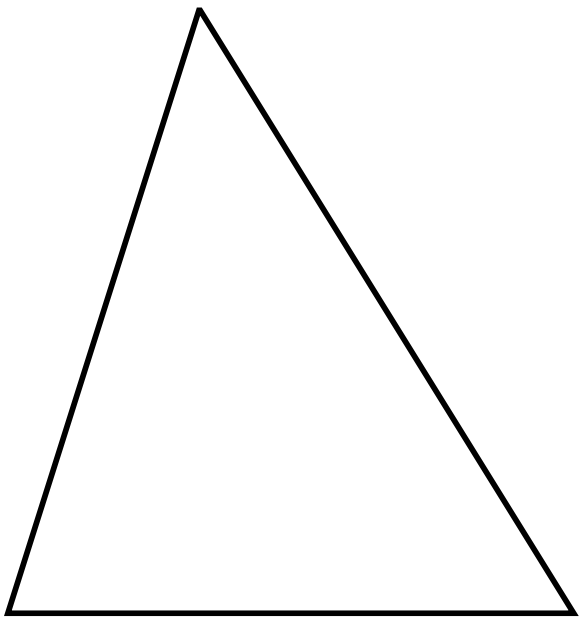
Ollie is making brownies from a boxed mix. The directions call for _____ eggs and _____ cups water to be added to the mix. The oven temperature is to be set at _____°F. Ollie plans to bake the brownies in a _____ inch by _____ inch pan. When they are done, she will cut the baked brownies into _____ pieces.



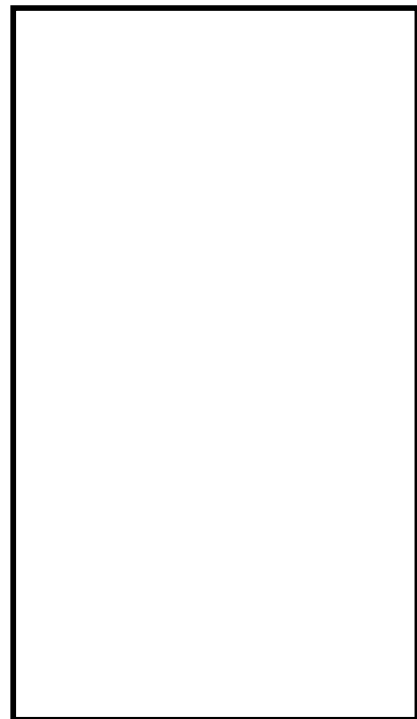
Use a ruler to find the perimeter of each shape.



perimeter = _____ cm



perimeter = _____ cm



perimeter = _____ cm

In one week, these were Aaron's scores on the daily spelling quizzes.

18 14 15 20 13

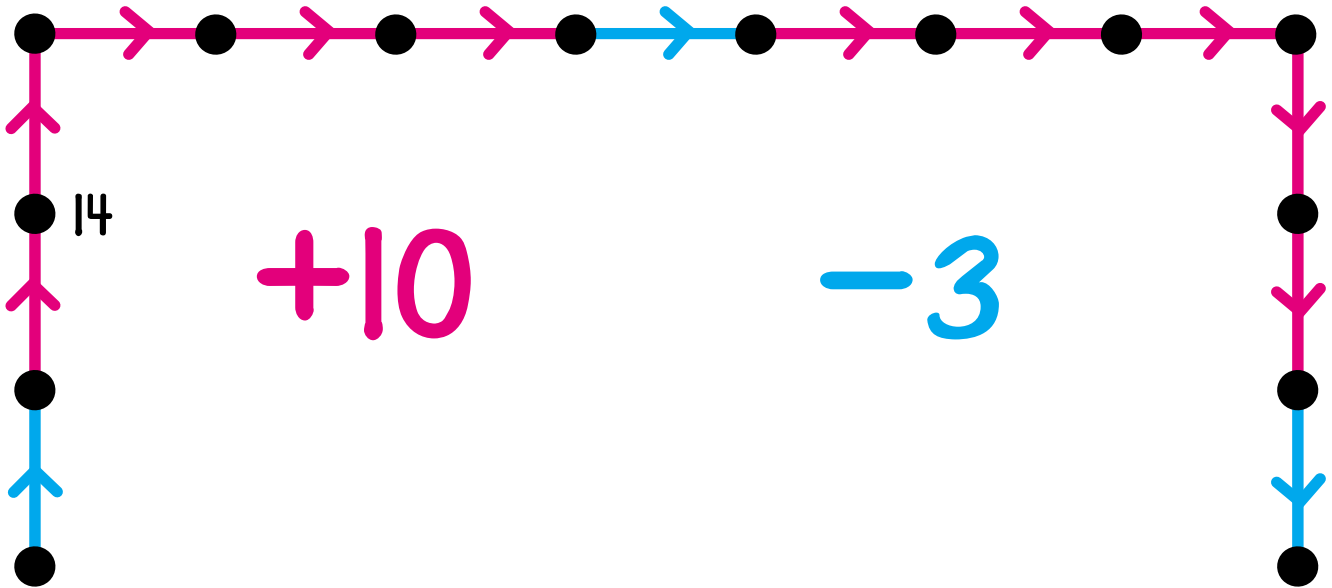
What was Aaron's total score for the week? _____

What was Aaron's average daily score that week? _____

Roy is a secret number.

Clue 1

Roy is in this arrow picture. Label the dots.



Clue 2

The double of Roy is more than 200.

Who is Roy? _____

Complete these calculations.

$$\begin{array}{r} 1057 \\ 281 \\ + 963 \\ \hline \end{array}$$

$$221 - 55 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 3026 \\ - 818 \\ \hline \end{array}$$

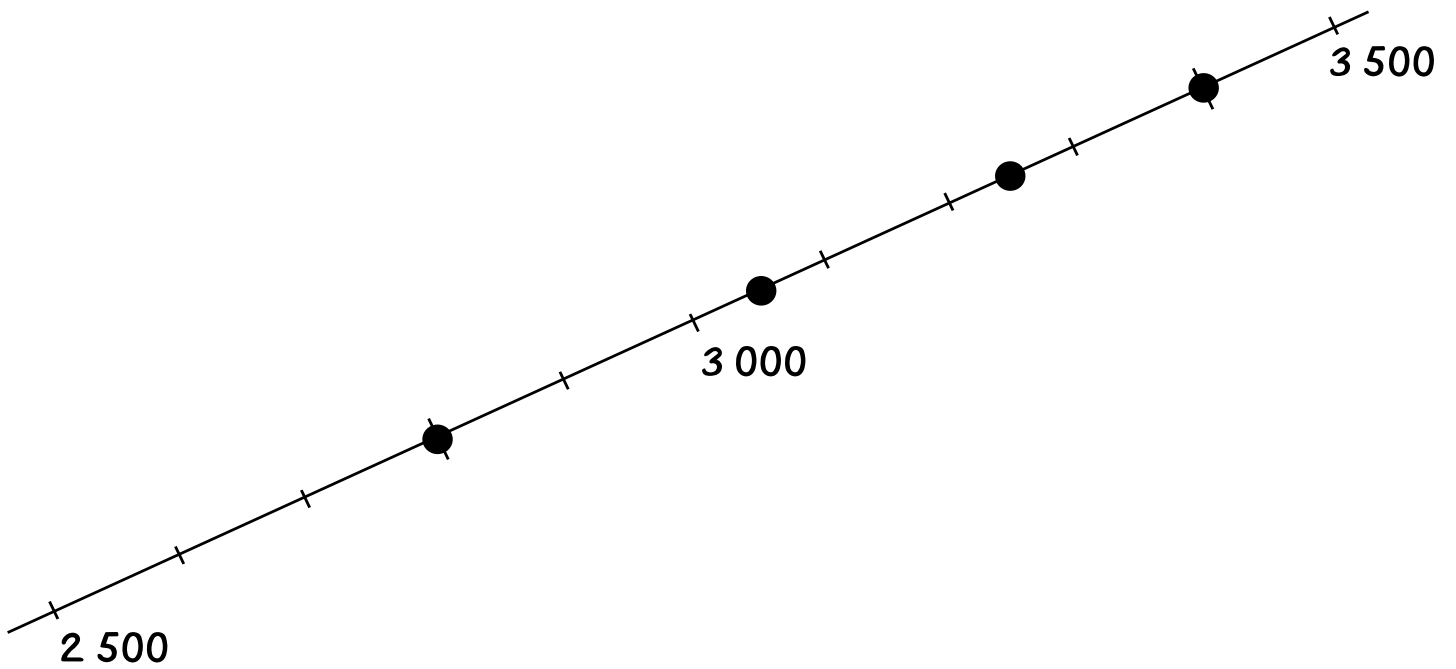
$$1730 \div 10 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 275 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 394 \\ \times 10 \\ \hline \end{array}$$

$$6 \overline{)426}$$

Label the dots on this part of a number line.



Draw and label a dot for 2 850.

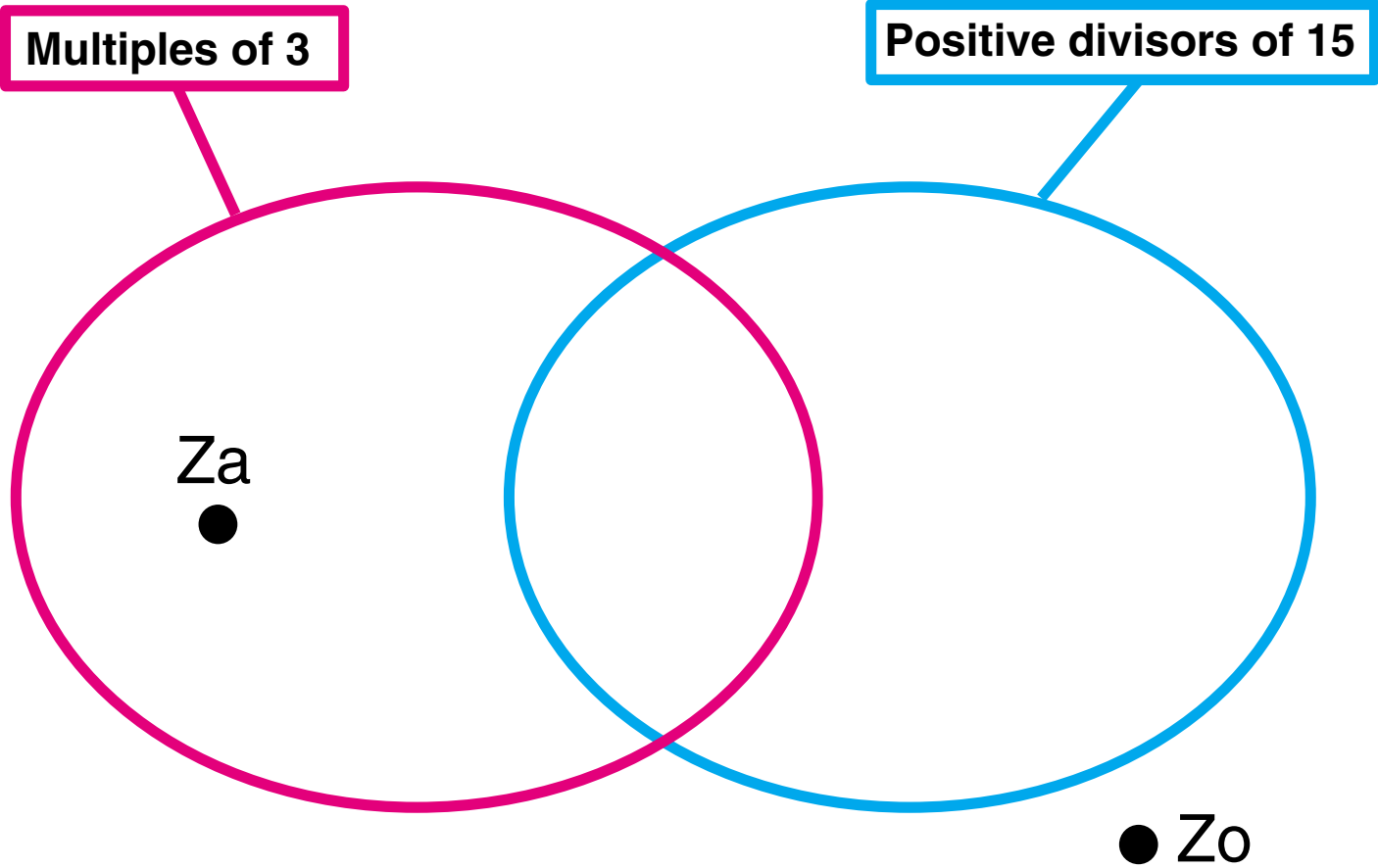
Draw and label a dot for 2 975.

Draw and label a dot for 3 305.

Draw and label a dot for 2 490.

Za and Zo are two of these numbers.

1 3 5 6 7 15



Who is Za? _____

Who is Zo? _____

Put each number on the Minicomputer using exactly one of these checkers:

②

③

④

⑤

⑥

⑦

⑧

⑨

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 14$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 32$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 72$$

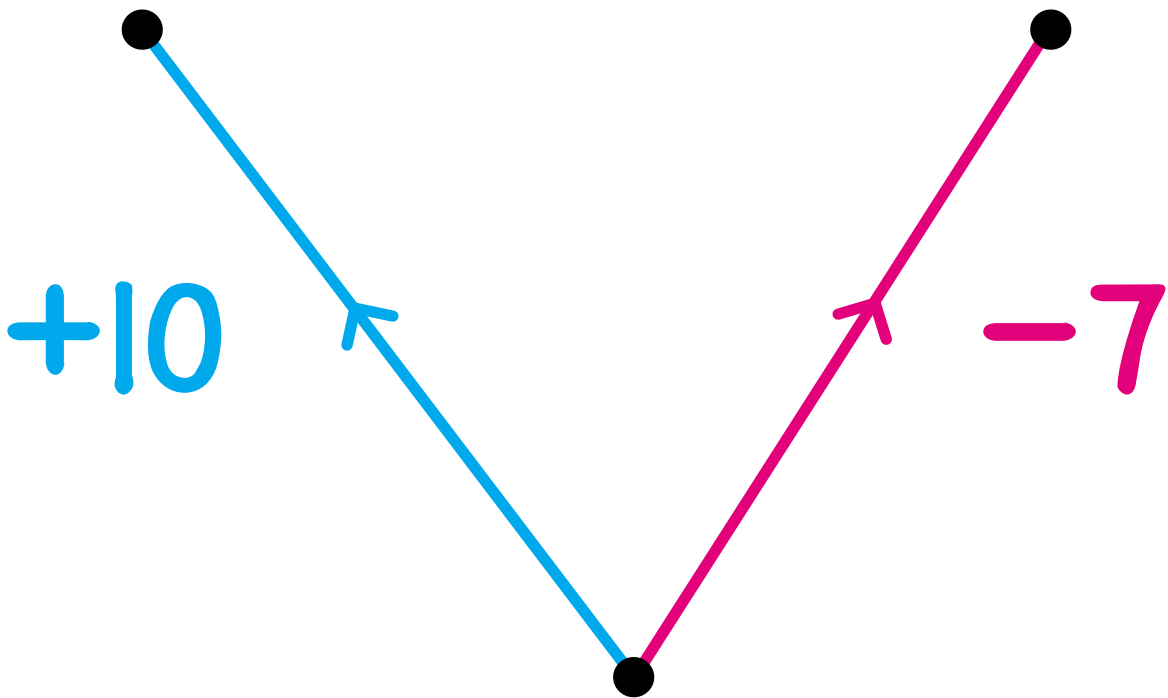
$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 36$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 360$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 240$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 200$$

15 is the least number in this picture and Rick is the greatest number. Label the dots.



Who is Rick? _____

Complete.

$9 \times 8 = \underline{\quad}$

$72 \div 9 = \underline{\quad}$

$72 \div 8 = \underline{\quad}$

$7 \times 6 = \underline{\quad}$

$42 \div 7 = \underline{\quad}$

$42 \div 6 = \underline{\quad}$

$5 \times 24 = \underline{\quad}$

$120 \div 5 = \underline{\quad}$

$120 \div 24 = \underline{\quad}$

$10 \times 13 = \underline{\quad}$

$130 \div 10 = \underline{\quad}$

$130 \div 13 = \underline{\quad}$

$3 \overline{)69}$

$3 \overline{)72}$

$3 \overline{)75}$

$3 \overline{)78}$

$11 \times 13 = \underline{\quad}$

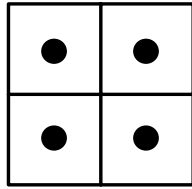
$11 \times 14 = \underline{\quad}$

$11 \times 15 = \underline{\quad}$

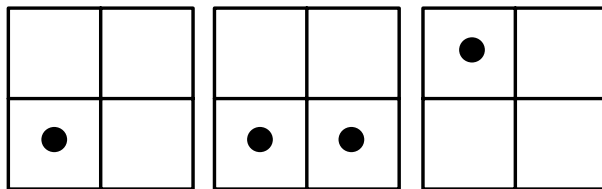
$11 \times 16 = \underline{\quad}$

$11 \times 17 = \underline{\quad}$

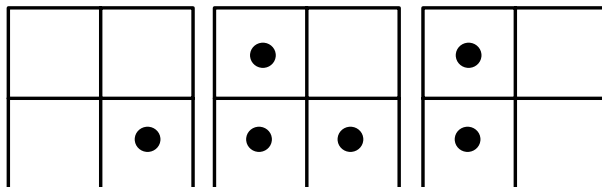
Add one checker to this Minicomputer to get 19.



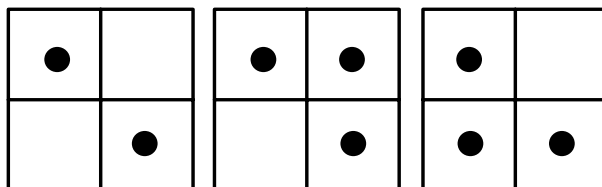
Add two checkers to this Minicomputer to get 250.



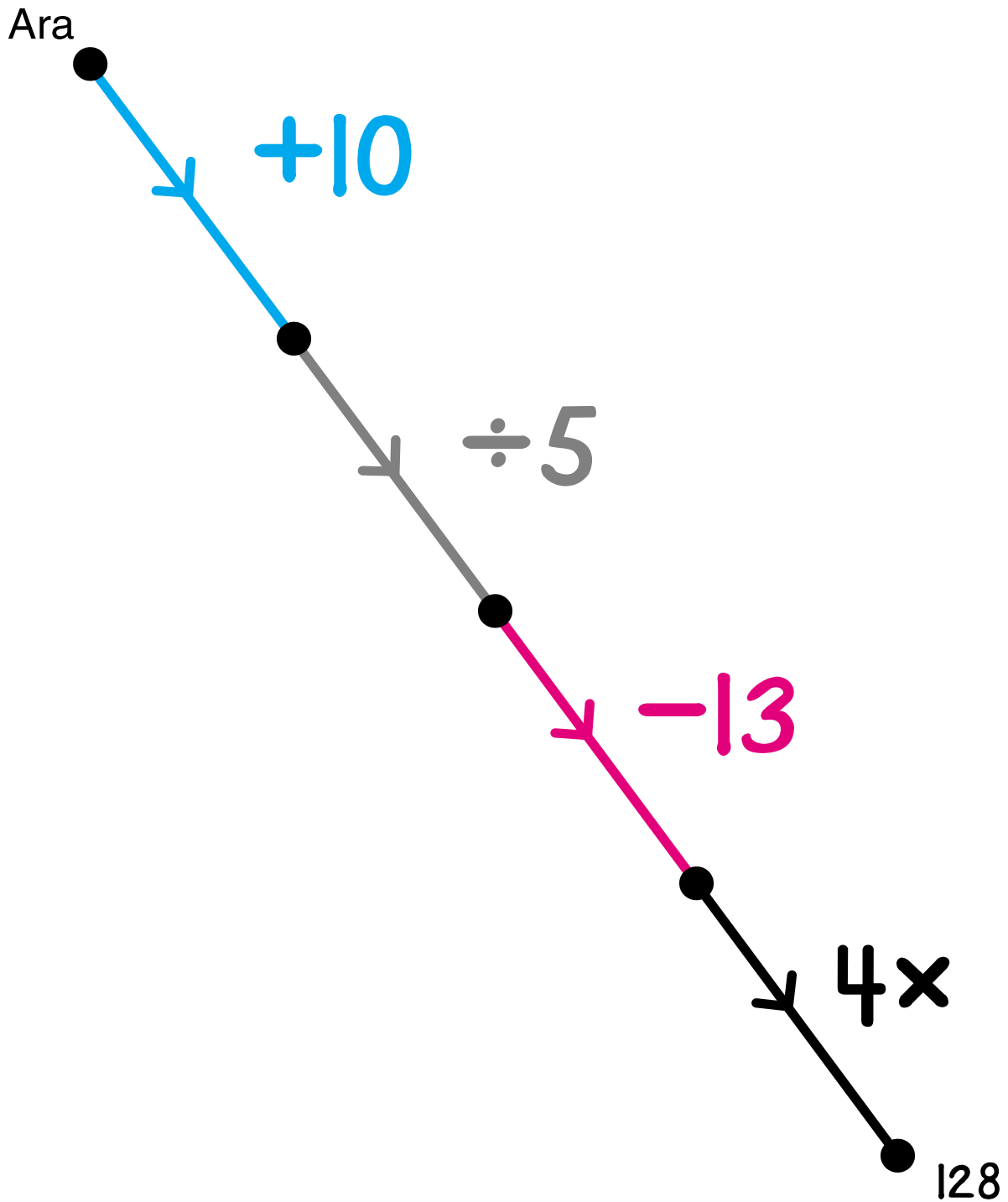
Remove one checker from this Minicomputer to get 200.



Remove two checkers from this Minicomputer to get 1 000.



Ara is the starting number of this arrow road.



Who is Ara? _____

Complete these calculations. Hint: You should not need to add the long columns of numbers.

$$\begin{array}{r} 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ + 158 \\ \hline \end{array}$$

$10 \times 158 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ + 158 \\ \hline \end{array}$$

$11 \times 158 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ 158 \\ + 158 \\ \hline \end{array}$$

$12 \times 158 = \underline{\hspace{2cm}}$

 $22 \times 158 = \underline{\hspace{2cm}}$

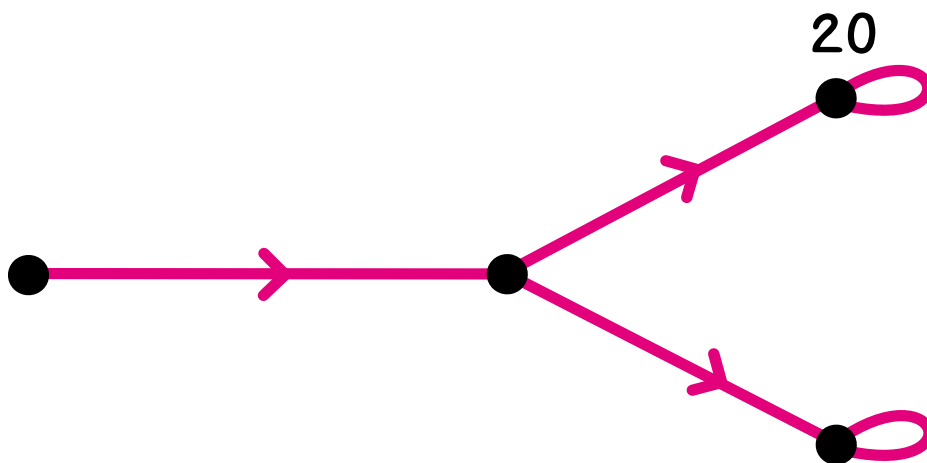
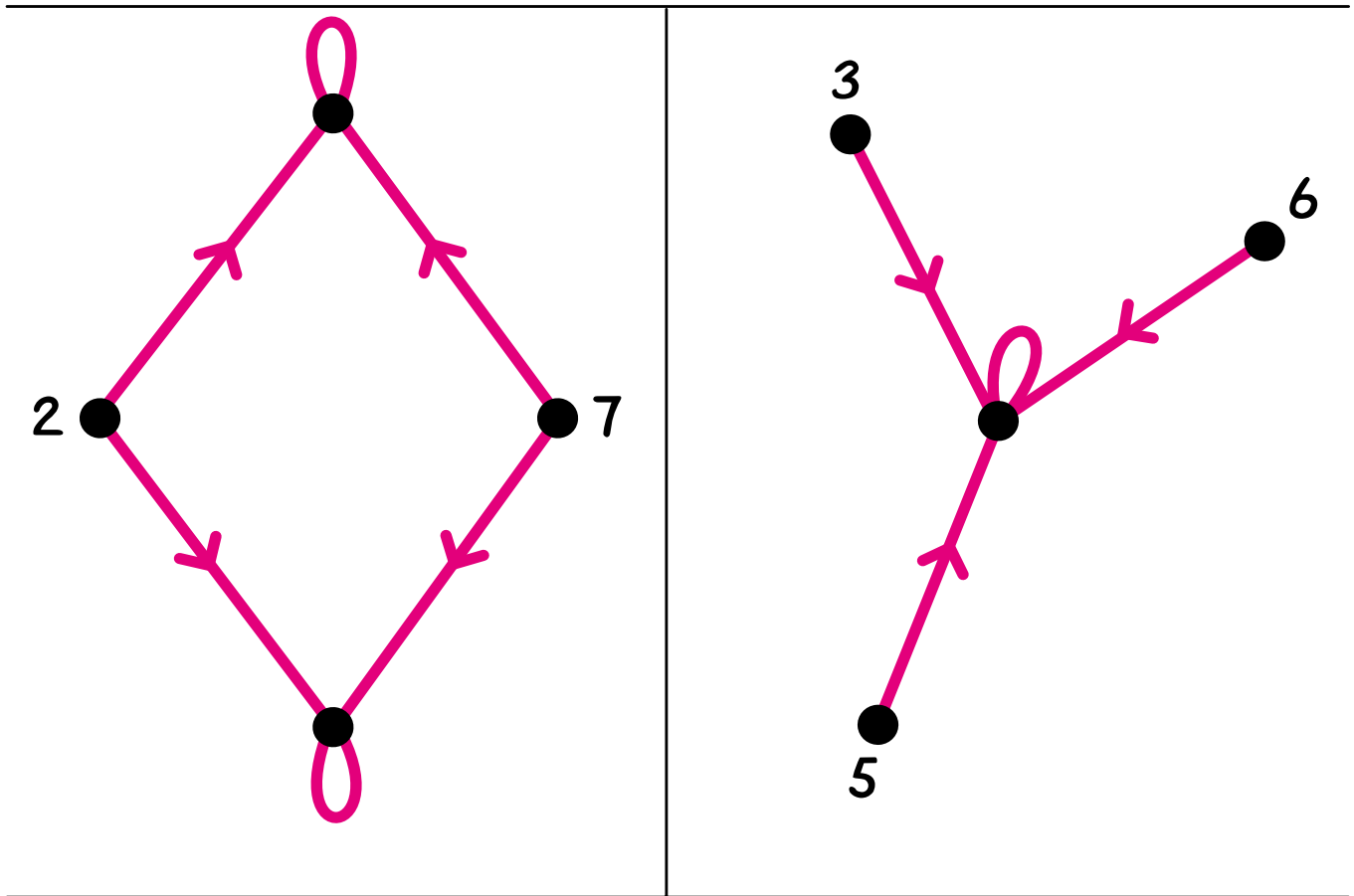
$24 \times 158 = \underline{\hspace{2cm}}$

$23 \times 158 = \underline{\hspace{2cm}}$

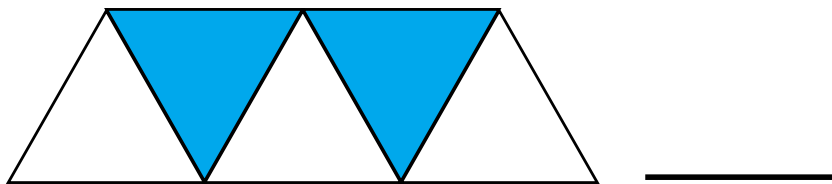
$25 \times 158 = \underline{\hspace{2cm}}$

Label the dots. Many solutions are possible.
Then draw the missing red arrows and loops.

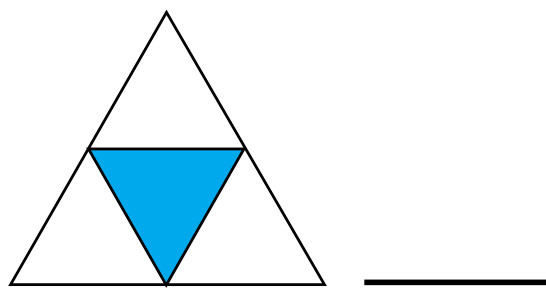
is a positive divisor of



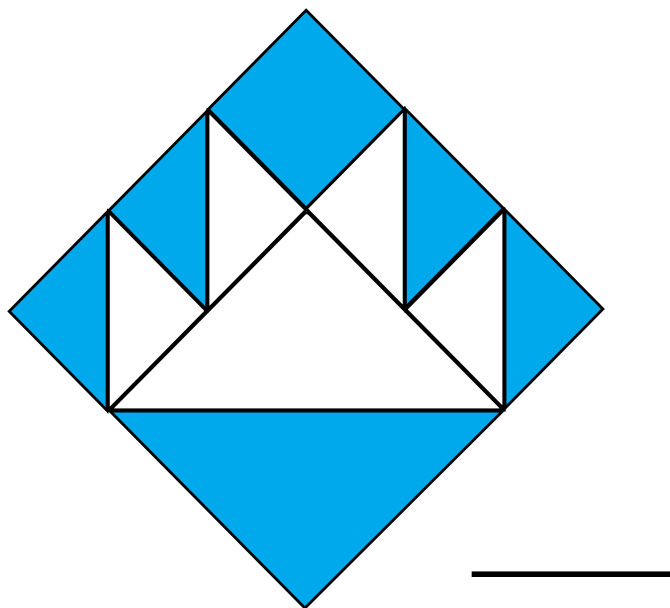
How many triangles can you find in each figure?
Write the number in the blank.



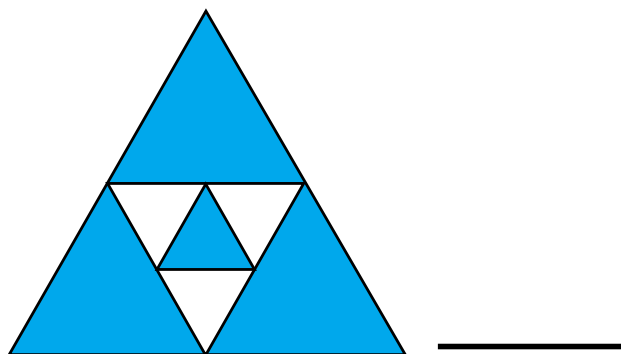
There are more than three here.



There are more than four here.

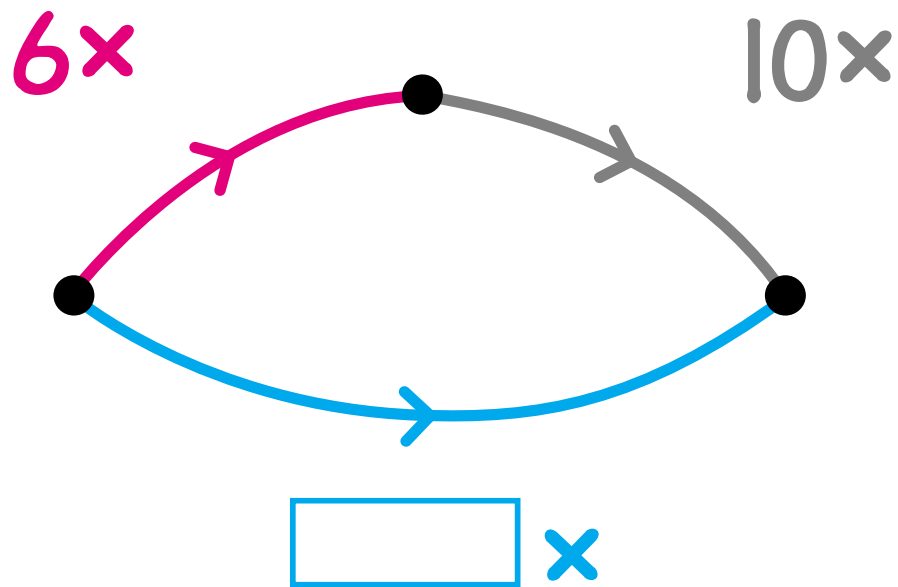


There are more than five here.



There are more than seven here

Fill in the box for the blue arrow.



Complete these calculations. This arrow picture can help you.

$$60 \times 23 = \underline{\hspace{2cm}}$$

$$60 \times 52 = \underline{\hspace{2cm}}$$

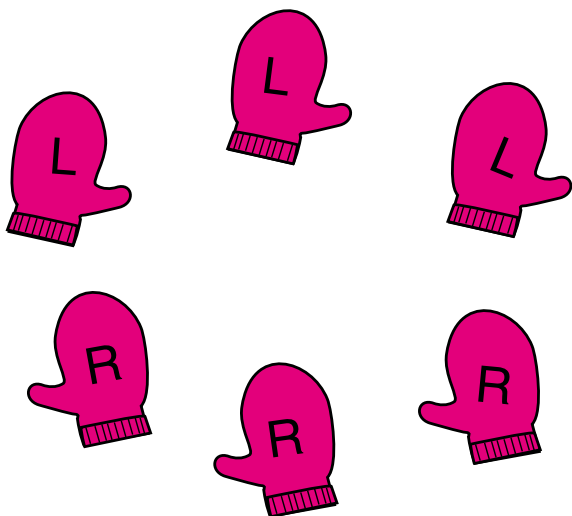
$$60 \times 100 = \underline{\hspace{2cm}}$$

$$60 \times 152 = \underline{\hspace{2cm}}$$

Juan is buying a pair of mittens on sale. All the mittens of one kind in his size are in a bin. There are three pairs (three right hand and three left hand) in the bin. Without looking he takes two mittens from the bin. Find the probability he selects a pair.

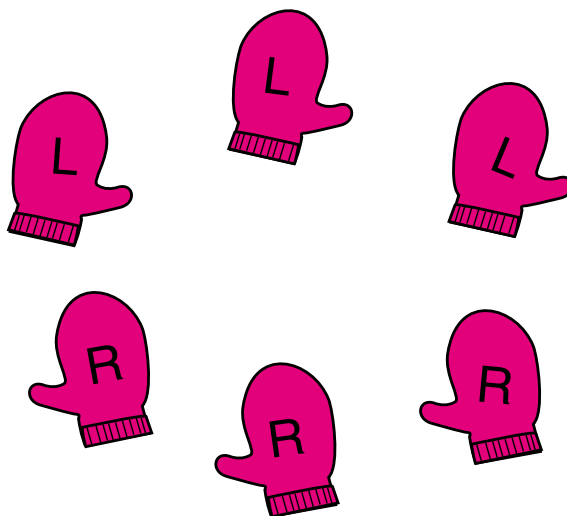
Same
(not a pair)

Show all the ways Juan could select two mittens for the same hand.



Different
(a pair)

Show all the ways Juan could select two mittens for different hands (a pair).



How many ways can Juan select mittens for the same hand? _____

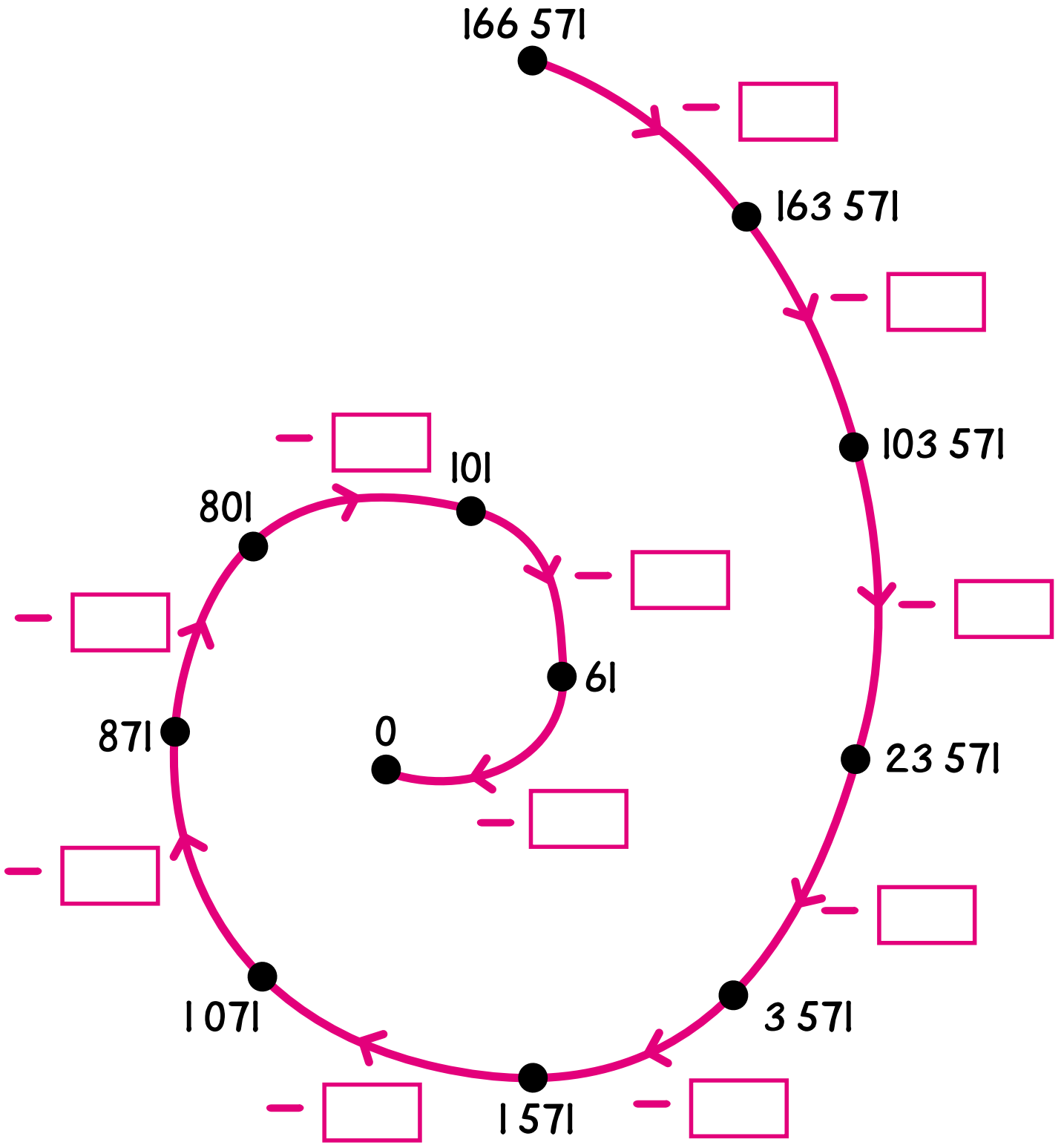
How many ways can Juan select a pair of mittens? _____

Altogether, how many ways can Juan select two mittens? _____

What is the probability that Juan selects a pair? _____

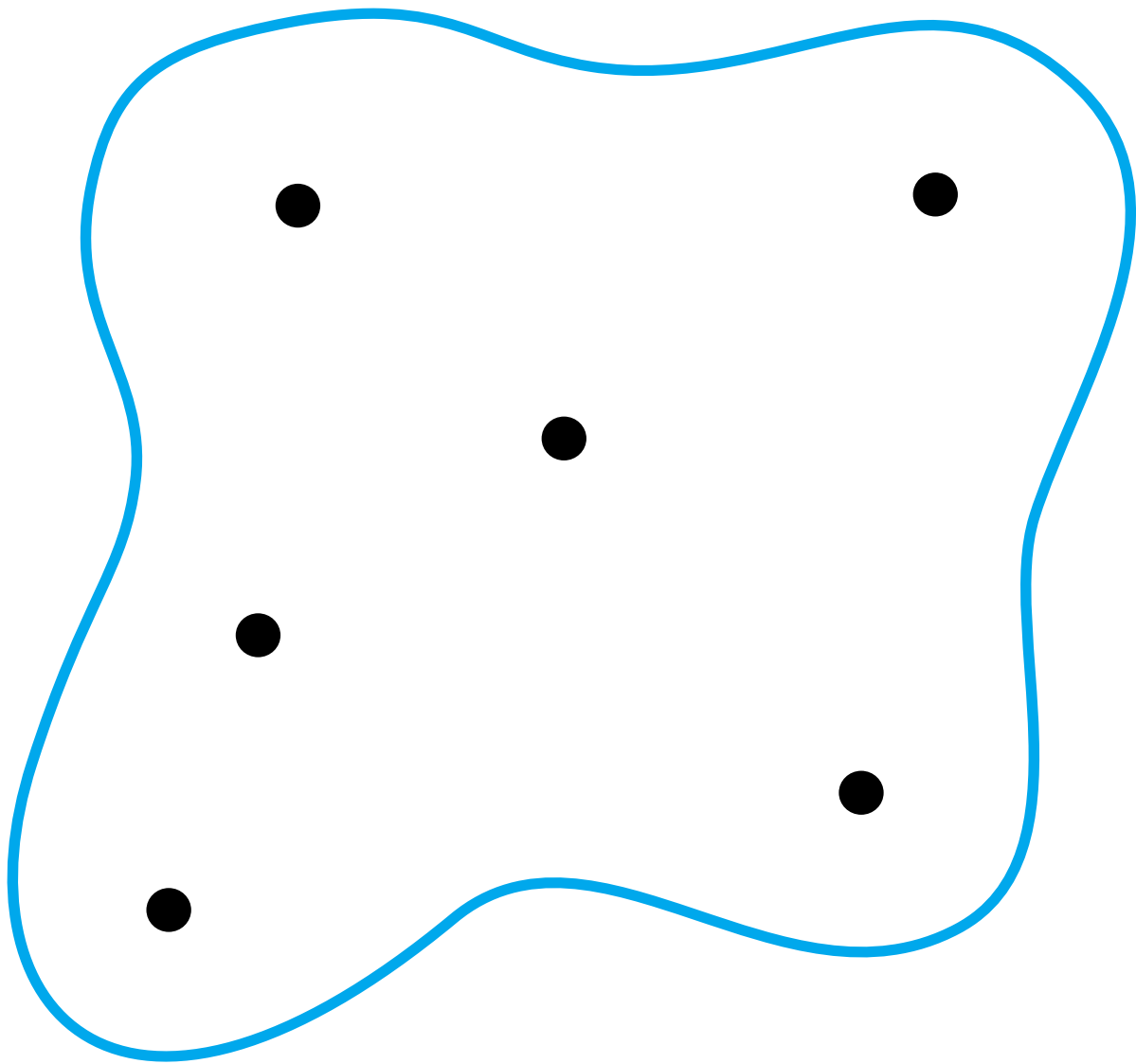
Wipe-Out

Label the arrows.

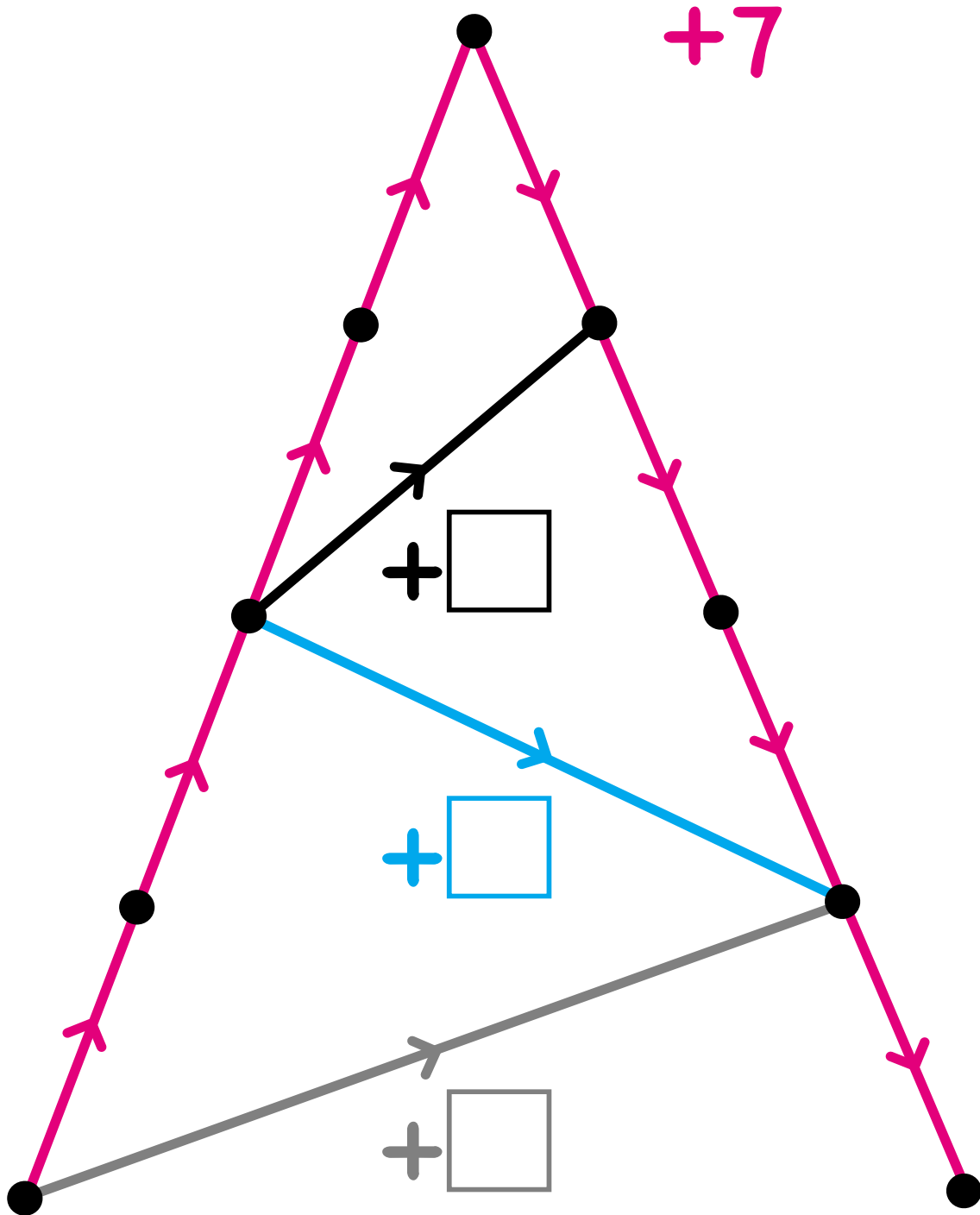


Label the six dots with whole numbers so that

- exactly two of them are positive divisors of 36;
- none of them is less than 10;
- at most three of them are even.



Label the black arrow, the blue arrow, and the gray arrow.



Complete these calculations.

$23 - 15 = \underline{\quad}$

$3.8 + 6 = \underline{\quad}$

$23 - 1.5 = \underline{\quad}$

$3.8 + 0.6 = \underline{\quad}$

$2.3 - 1.5 = \underline{\quad}$

$0.38 + 0.6 = \underline{\quad}$

$$\begin{array}{r} 314 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 31.4 \\ \times 5 \\ \hline \end{array}$$

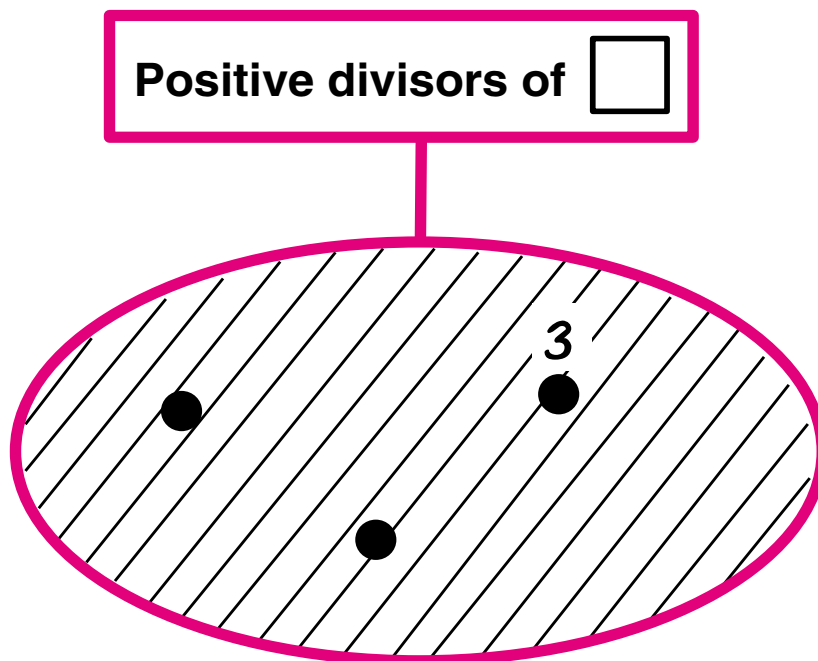
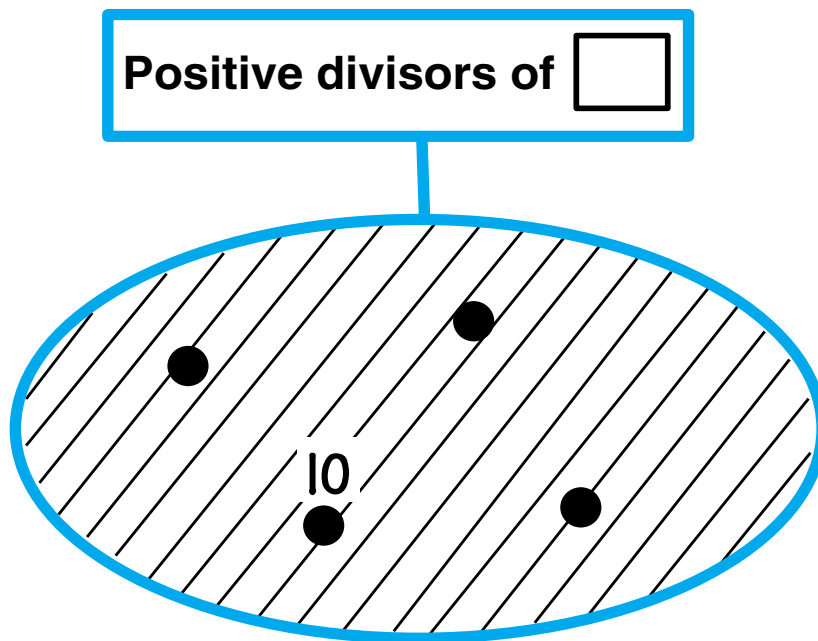
$$\begin{array}{r} 3.14 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 256 \\ + 387 \\ \hline \end{array}$$

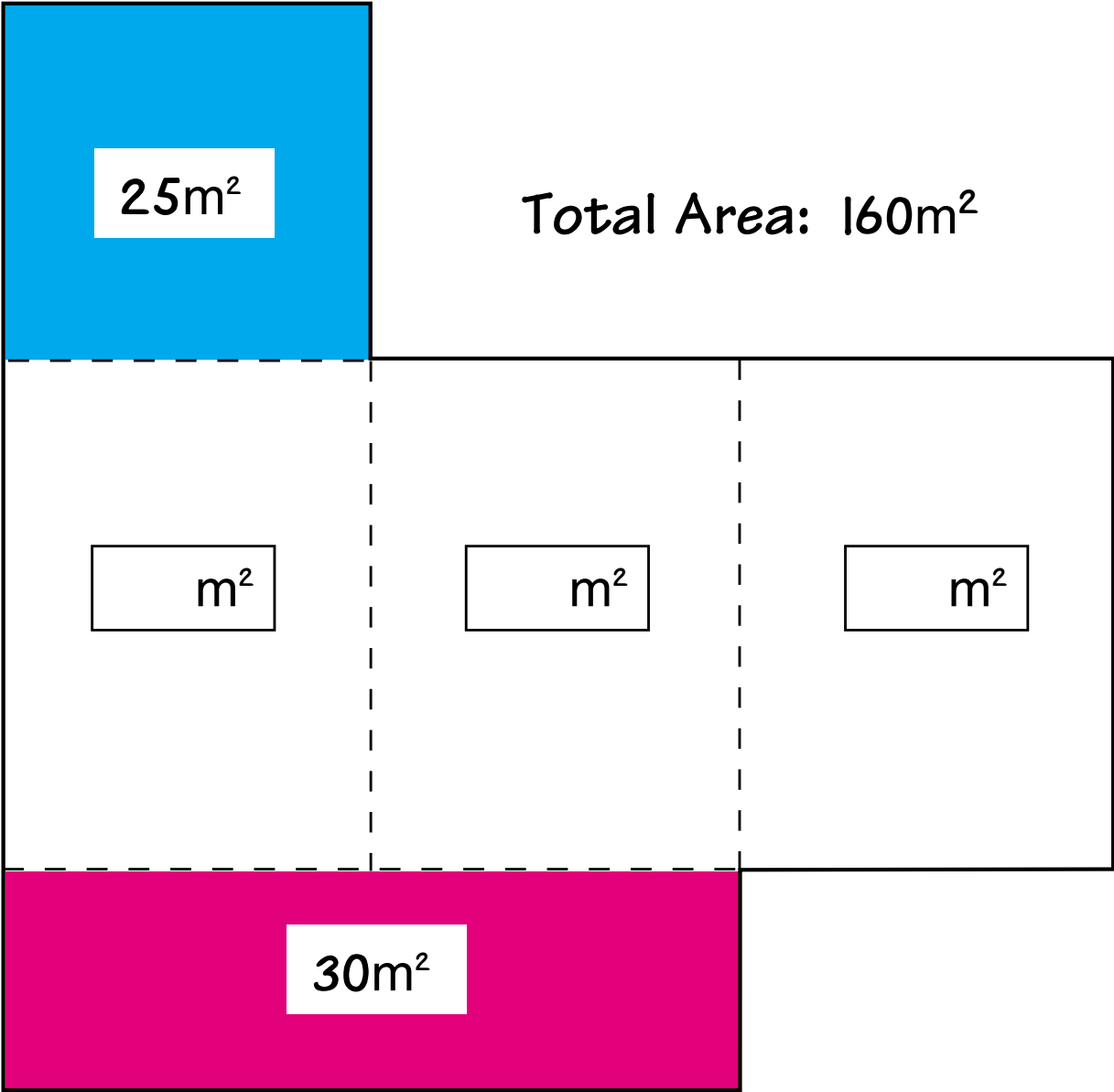
$$\begin{array}{r} 25.6 \\ + 38.7 \\ \hline \end{array}$$

$$\begin{array}{r} 2.56 \\ + 3.87 \\ \hline \end{array}$$

Fill in the boxes and then label the dots.



This is the floor plan of a house. The total floor space in this house is 160 m^2 . The area of the blue room is 25 m^2 and the red room is 30 m^2 . The other three rooms all have the same area. Fill in the boxes to show the areas of the three rooms.



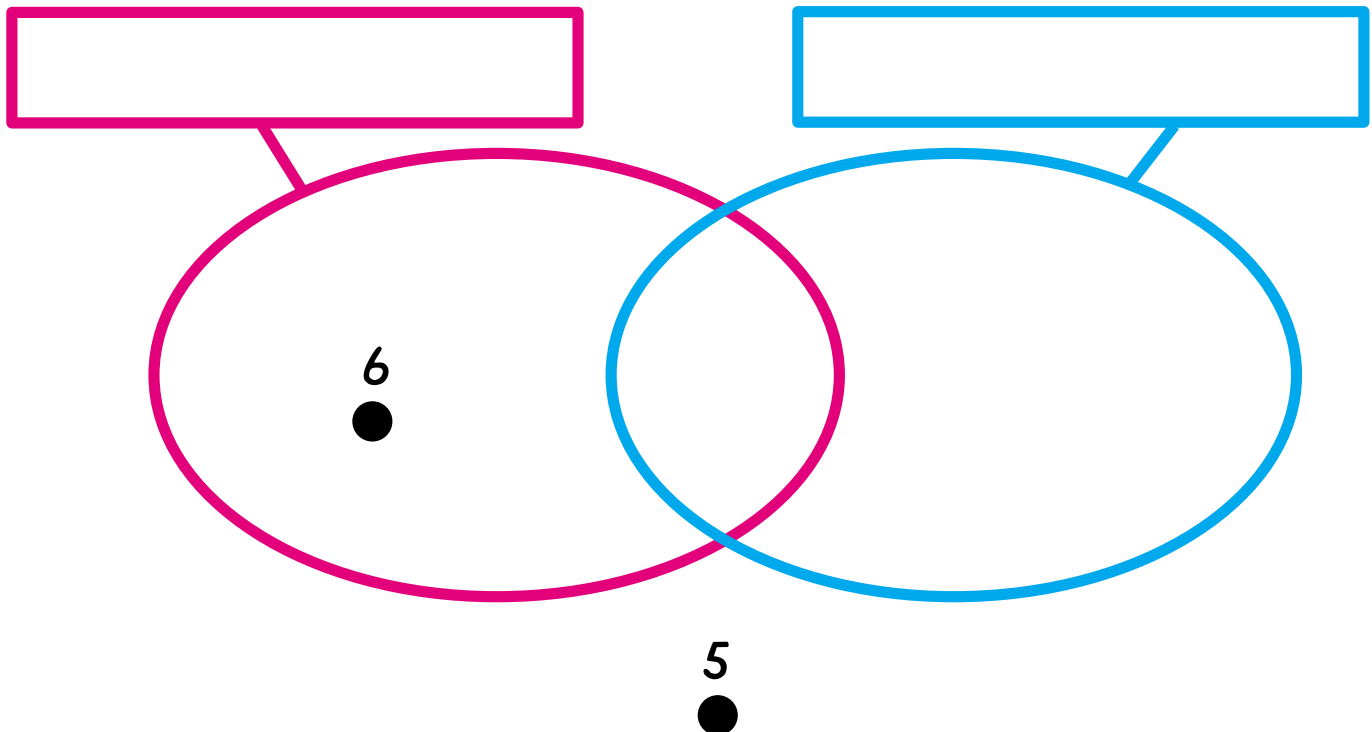
The red label is one of these:

The blue label is one of these:

Positive prime numbers
Positive divisors of 20
Multiples of 4
Greater than $\widehat{10}$
Less than 50
Positive divisors of 24

Positive prime numbers
Positive divisors of 20
Multiples of 4
Greater than $\widehat{10}$
Less than 50
Positive divisors of 24

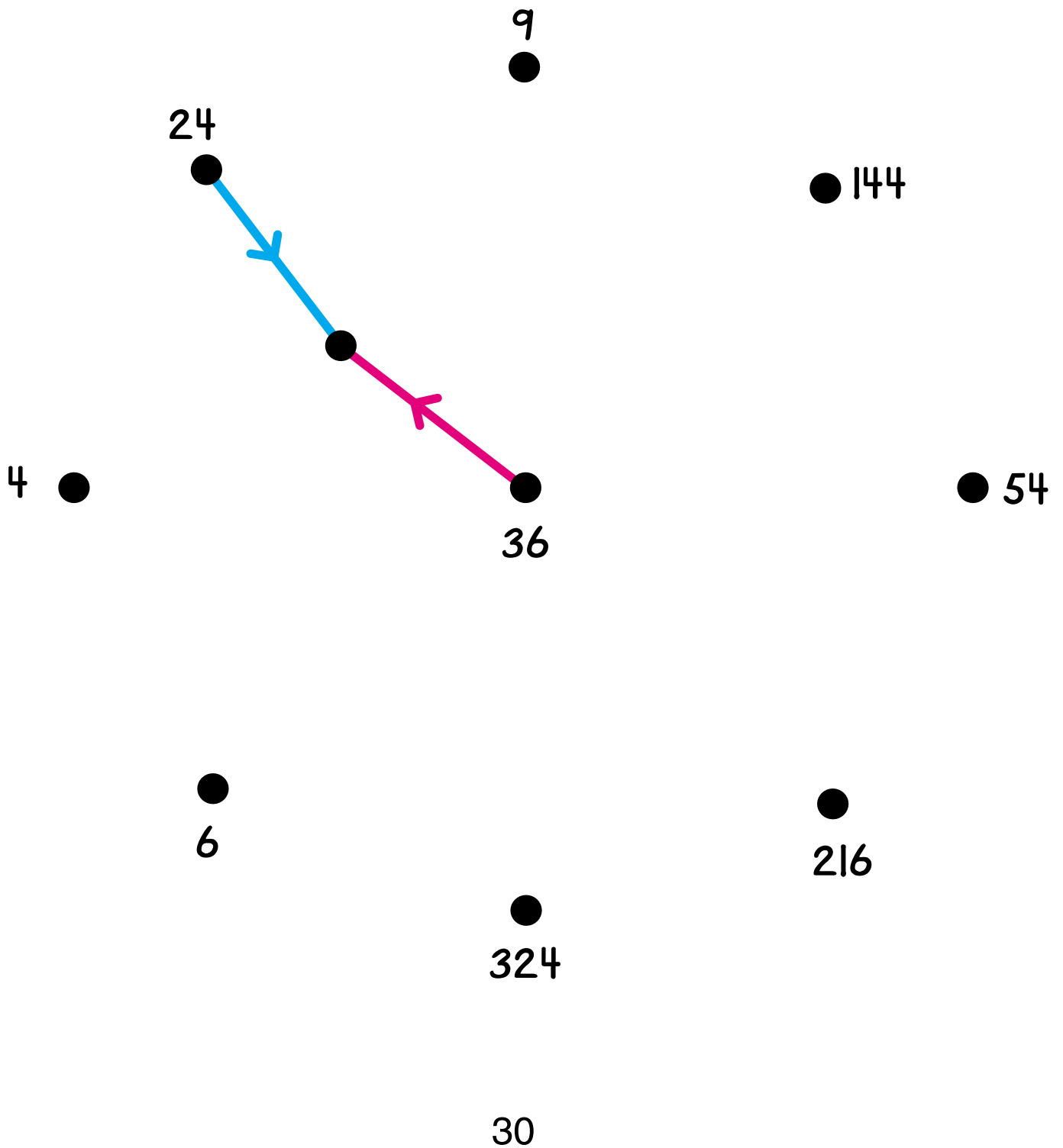
Label the strings.



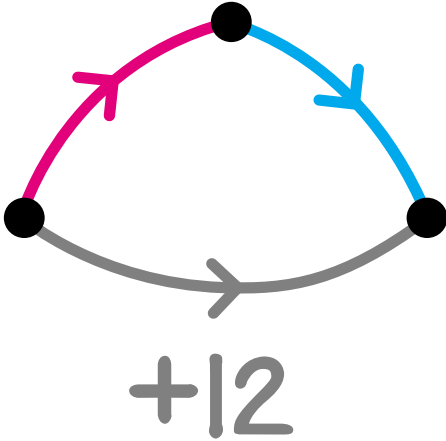
Connect 36 to each of the other numbers using exactly two arrows, red or blue. One is done for you.

2x

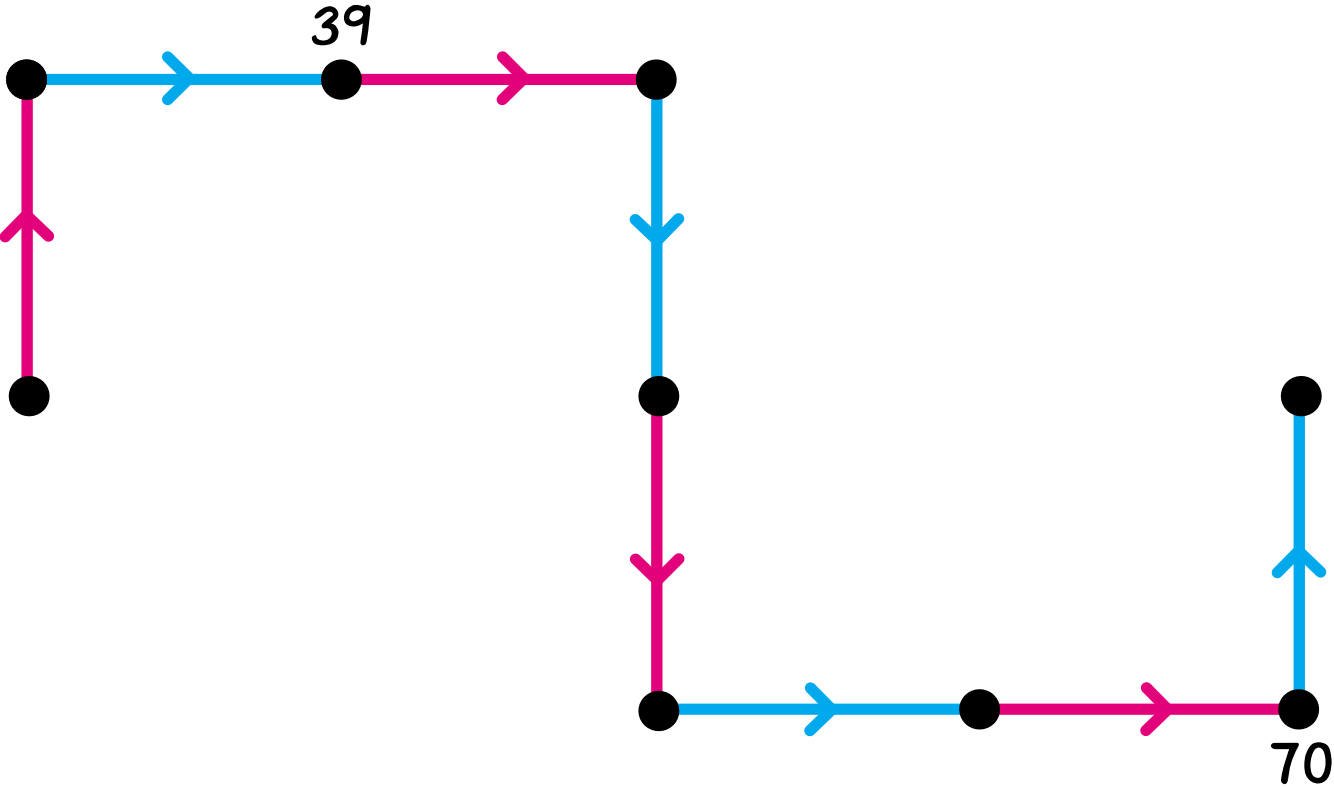
3x



Using this information,

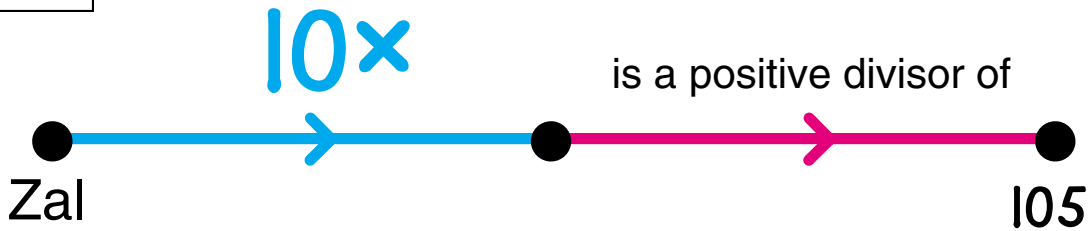


draw gray arrows and then label the dots in the picture below.



Zal is a secret number.

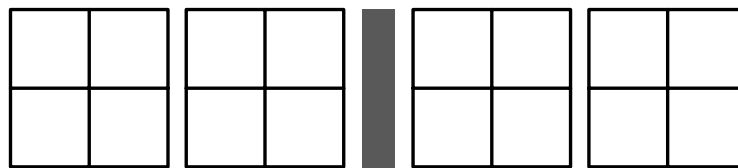
Clue 1



Zal could be _____, _____, _____, _____, _____, _____, or _____.

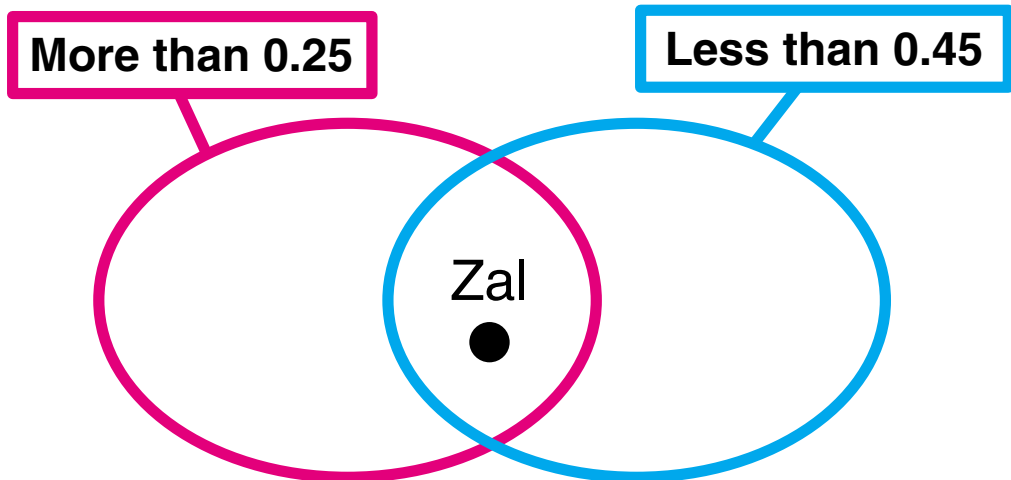
Clue 2

Zal can be put on this Minicomputer with two regular checkers.



Zal could be _____, _____, _____, or _____.

Clue 3



Who is Zal? _____