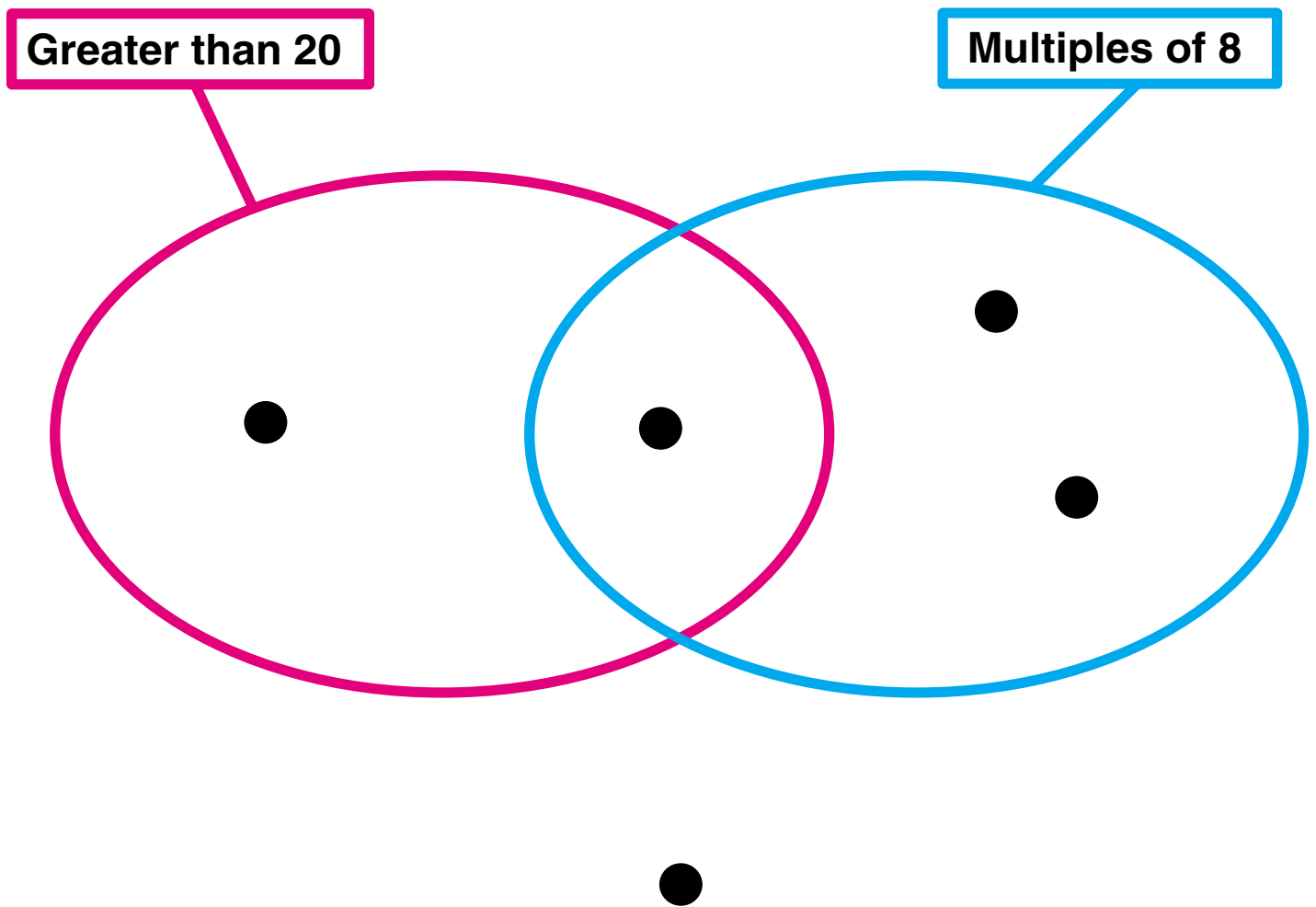


Name \_\_\_\_\_

Set  
of  
Problems #3

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

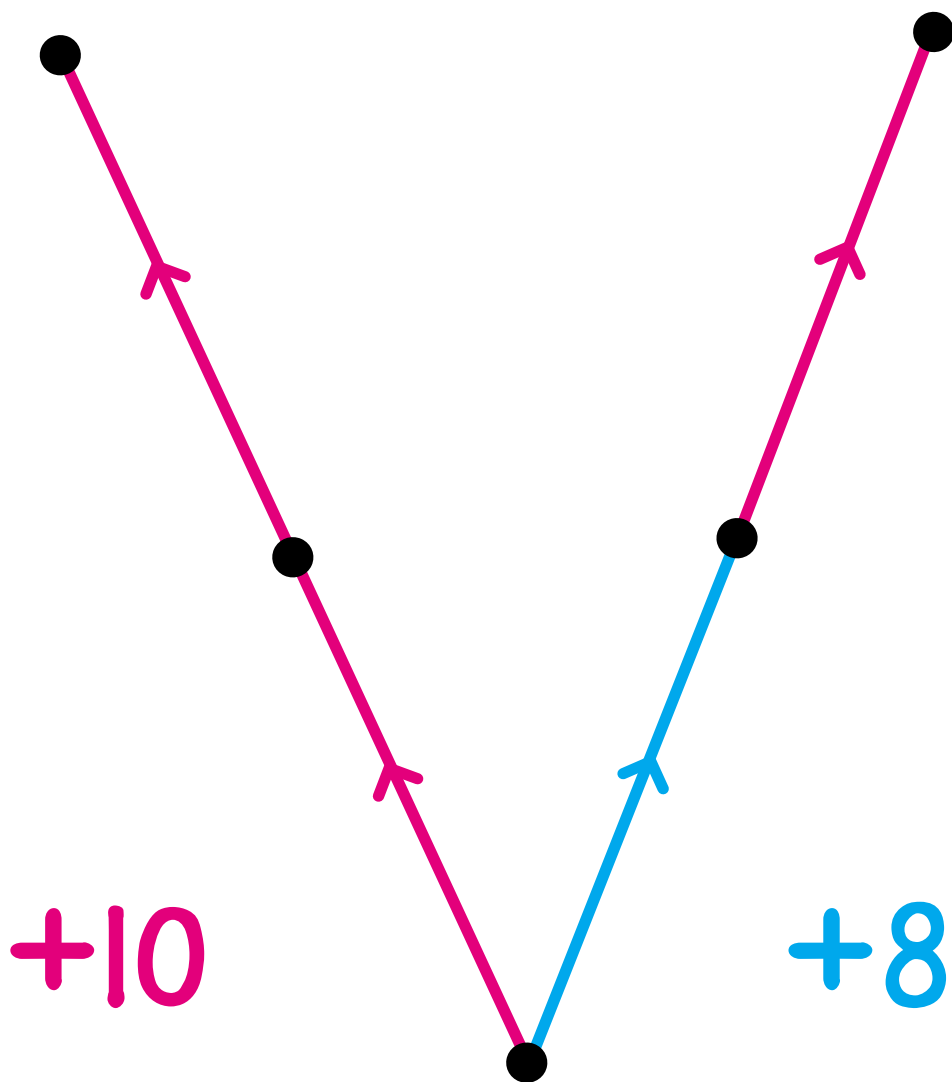
16 40 41 5 0



Put two more numbers of your choice in the picture.

Label each dot below with one of these five numbers.

15 23 25 33 35



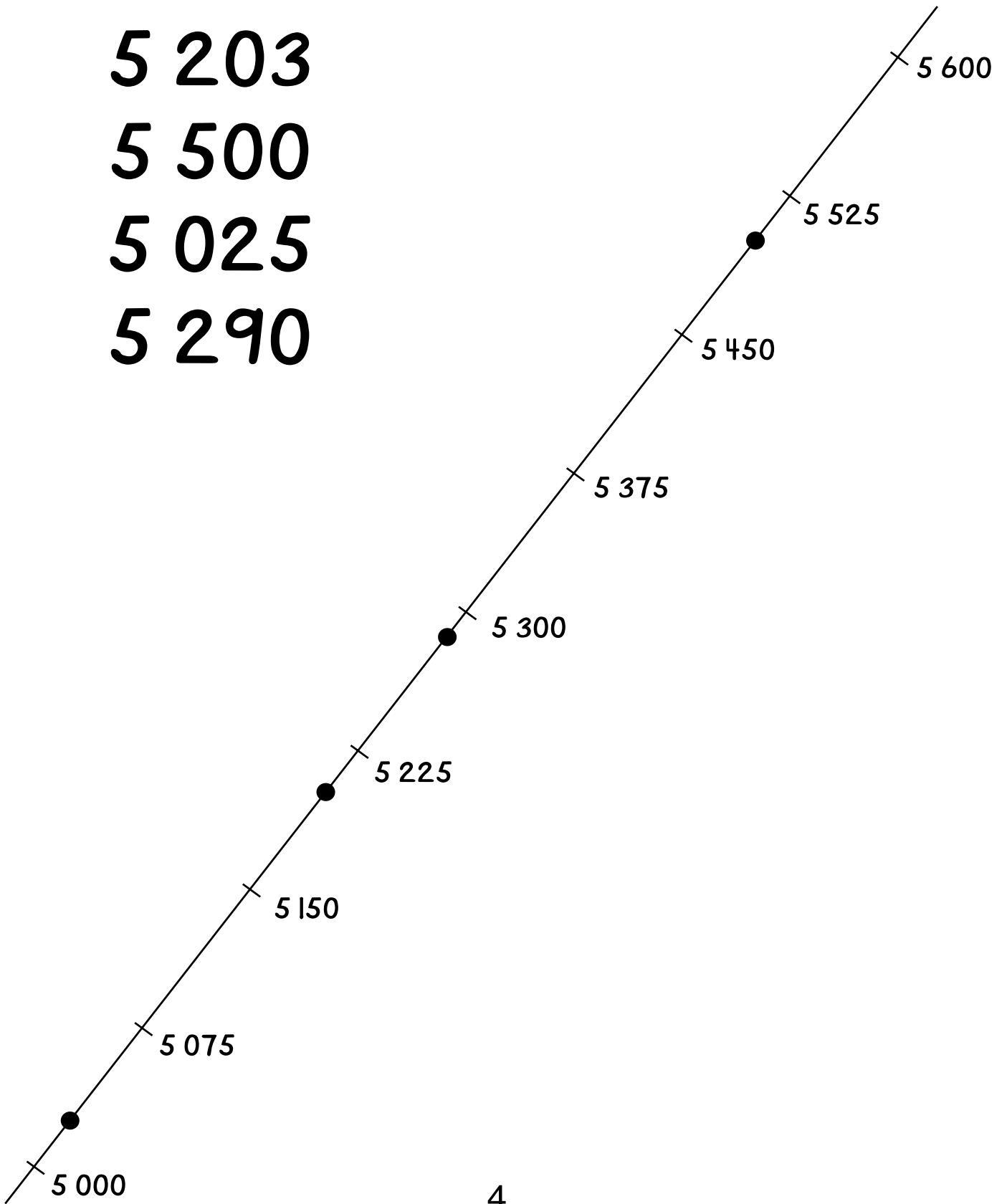
Find and label the dots on this number line for:

**5 203**

**5 500**

**5 025**

**5 290**



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

②

③

④

⑤

⑥

⑦

⑧

⑨

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 20$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 28$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 8$$

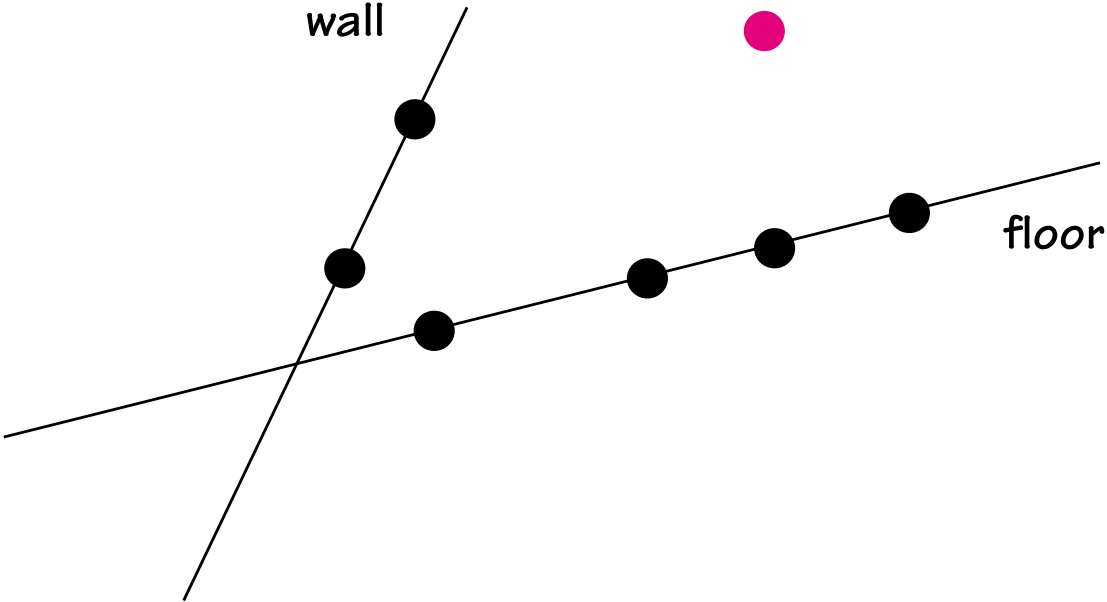
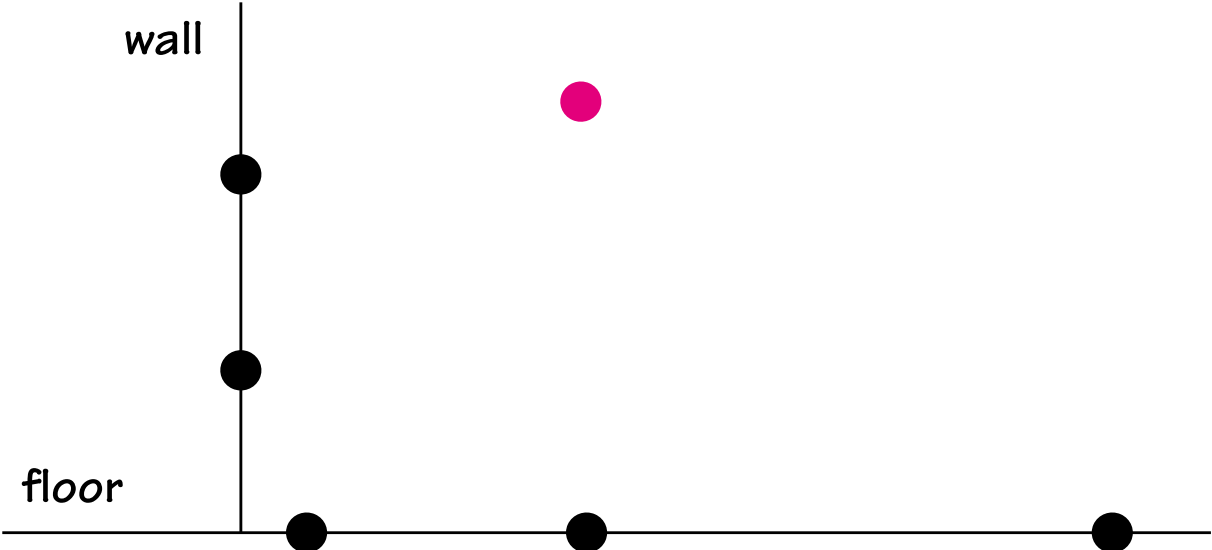
$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 56$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 120$$

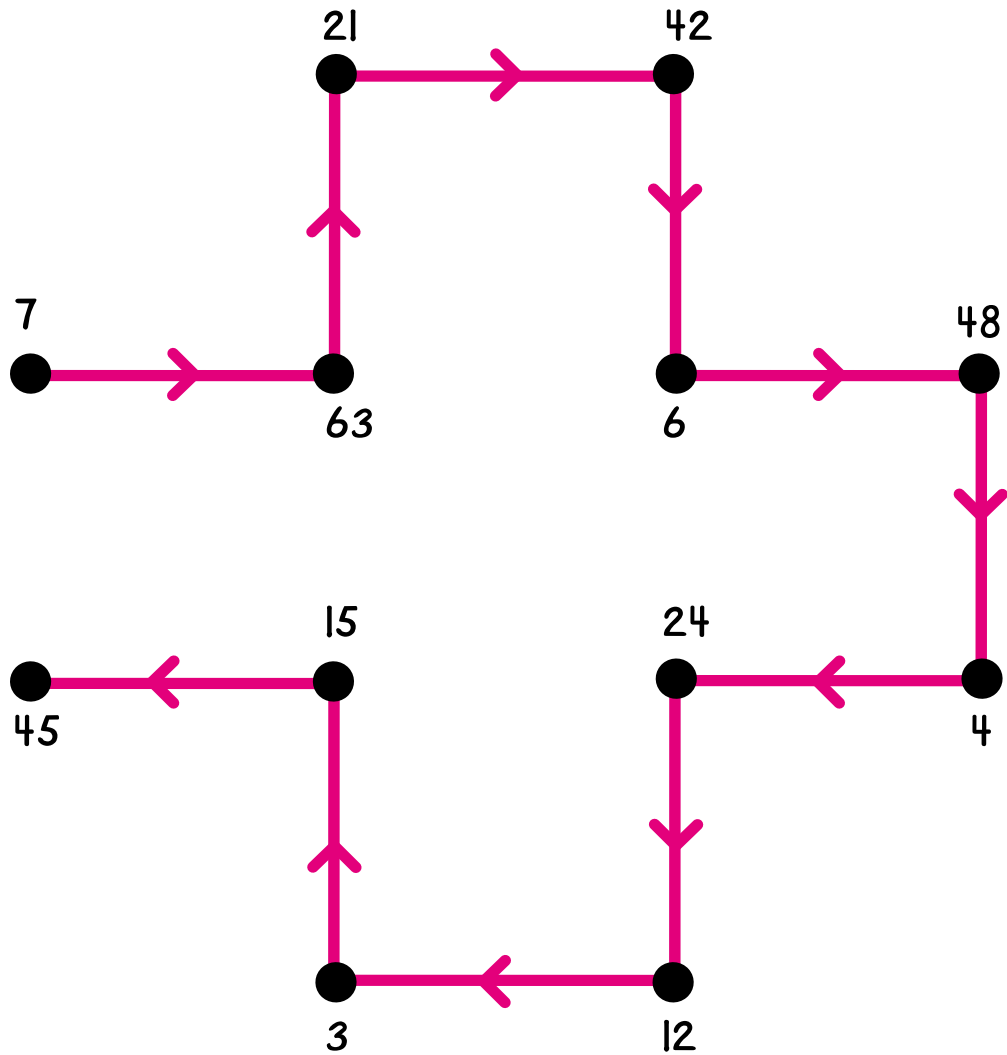
$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 480$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 640$$

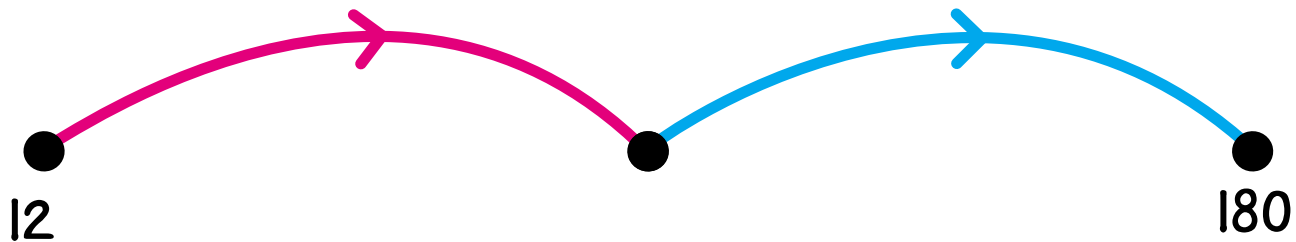
The red ball falls to the floor parallel to the wall. In each picture, circle the black dot that shows where the ball will hit.



Label each arrow  $\times$  or  $\div$  some whole number.



Pair the tags. One is done for you.

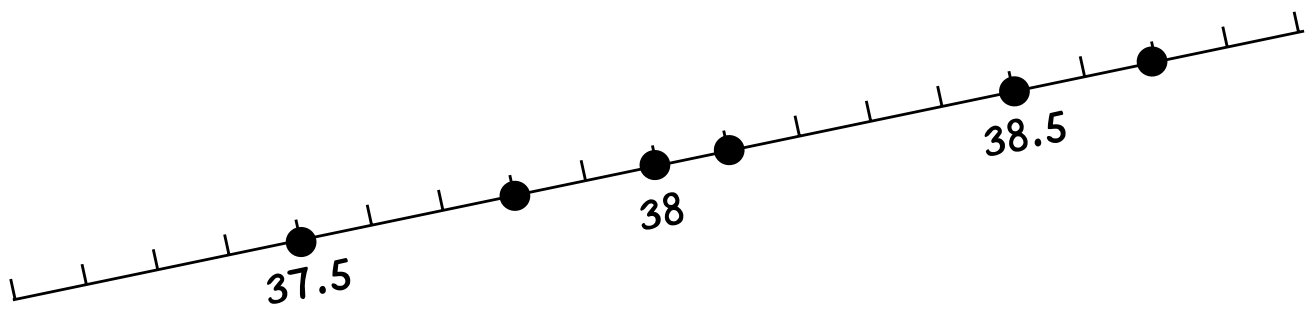
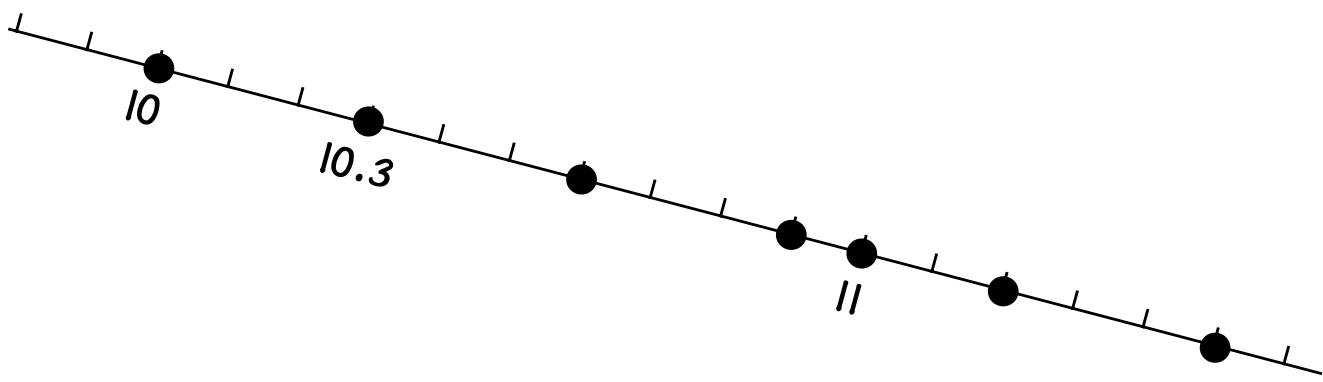
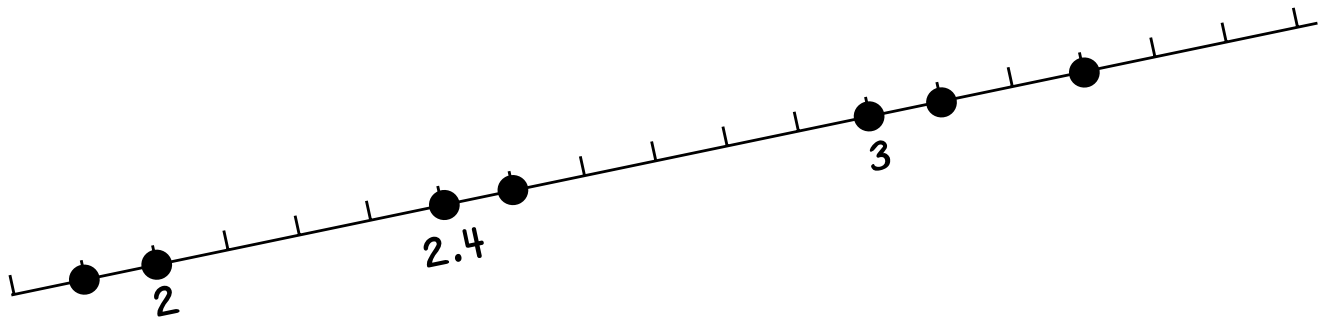


$+6$	$3\times$
$3\times$	$10\times$
$10\times$	$20\times$
$-3$	$6\times$
$5\times$	$5\times$
$+18$	$+60$

A diagram showing two columns of rectangular boxes. The left column contains six boxes with the following expressions from top to bottom:  $+6$ ,  $3\times$ ,  $10\times$ ,  $-3$ ,  $5\times$ , and  $+18$ . The right column contains six boxes with the following expressions from top to bottom:  $3\times$ ,  $10\times$ ,  $20\times$ ,  $6\times$ ,  $5\times$ , and  $+60$ . A black curved line connects the  $+6$  box in the left column to the  $10\times$  box in the right column.



Label the dots.



Do these calculations.

$$\begin{array}{r} 709 \\ 283 \\ +564 \\ \hline \end{array}$$

$$\begin{array}{r} 280 \\ -164 \\ \hline \end{array}$$

$$\begin{array}{r} 857 \\ \times 9 \\ \hline \end{array}$$

$15 - 7 = \square$

$24 - 18 = \square$

$7 - 15 = \square$

$18 - 24 = \square$

$4 - 0 = \square$

$17 - 9 = \square$

$0 - 4 = \square$

$9 - 17 = \square$

$8 \times 7 = \square$

$6 \times 9 = \square$

$56 \div 8 = \square$

$54 \div 6 = \square$

$56 \div 7 = \square$

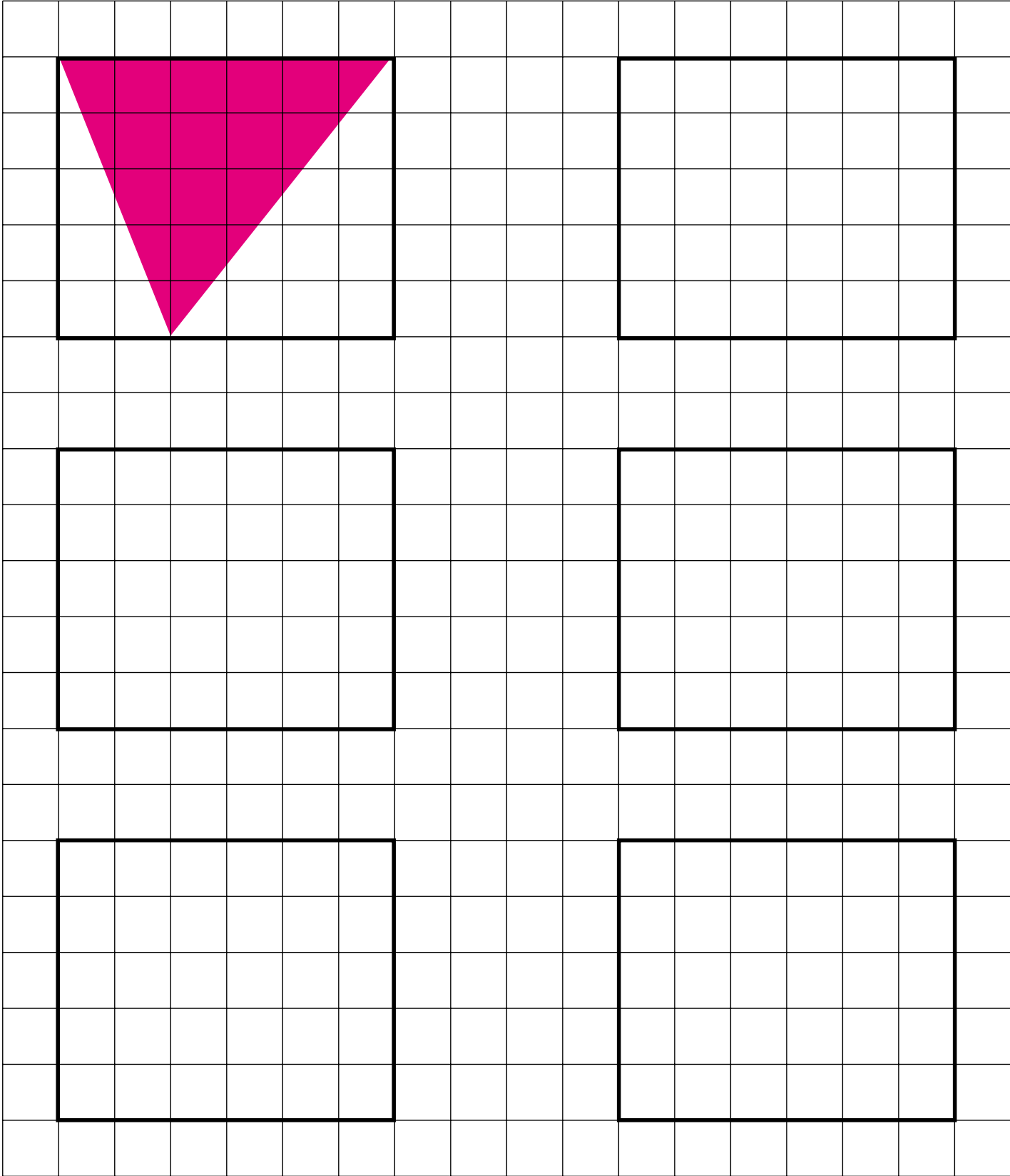
$54 \div 9 = \square$

Find all of the possible ending numbers of an arrow road that starts at 5 and has exactly one +12 arrow and two 3x arrows.

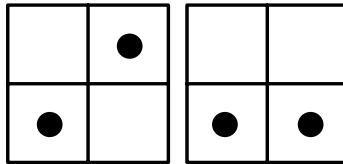
3x  
+12

●  
5

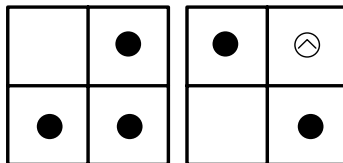
In each rectangle, draw a red triangle whose area is half that of the rectangle. One is done for you. You should have six different triangles.



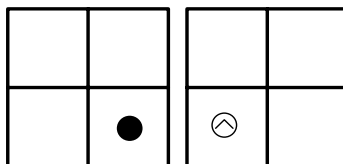
Move one checker to put 65 on the Minicomputer.



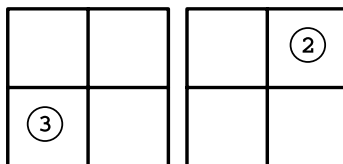
Move one checker to put 71 on the Minicomputer.



Move one checker to put 9 on the Minicomputer.



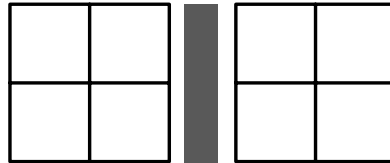
Move one checker to put 38 on the Minicomputer.



Joy is a secret number.

Clue 1

Joy can be put on this Minicomputer using just one ⑥-checker.



Joy could be \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,  
or \_\_\_\_\_.

Clue 2

is less than



Who is Joy? \_\_\_\_\_

Divide.

$$4 \overline{)16}$$

$$4 \overline{)20}$$

$$4 \overline{)24}$$

$$4 \overline{)28}$$

$$4 \overline{)17}$$

$$4 \overline{)21}$$

$$4 \overline{)25}$$

$$4 \overline{)29}$$

$$4 \overline{)18}$$

$$4 \overline{)22}$$

$$4 \overline{)26}$$

$$4 \overline{)30}$$

$$4 \overline{)19}$$

$$4 \overline{)23}$$

$$4 \overline{)27}$$

$$4 \overline{)31}$$

This winter Nabu packs oranges in boxes that hold a dozen (12) each.

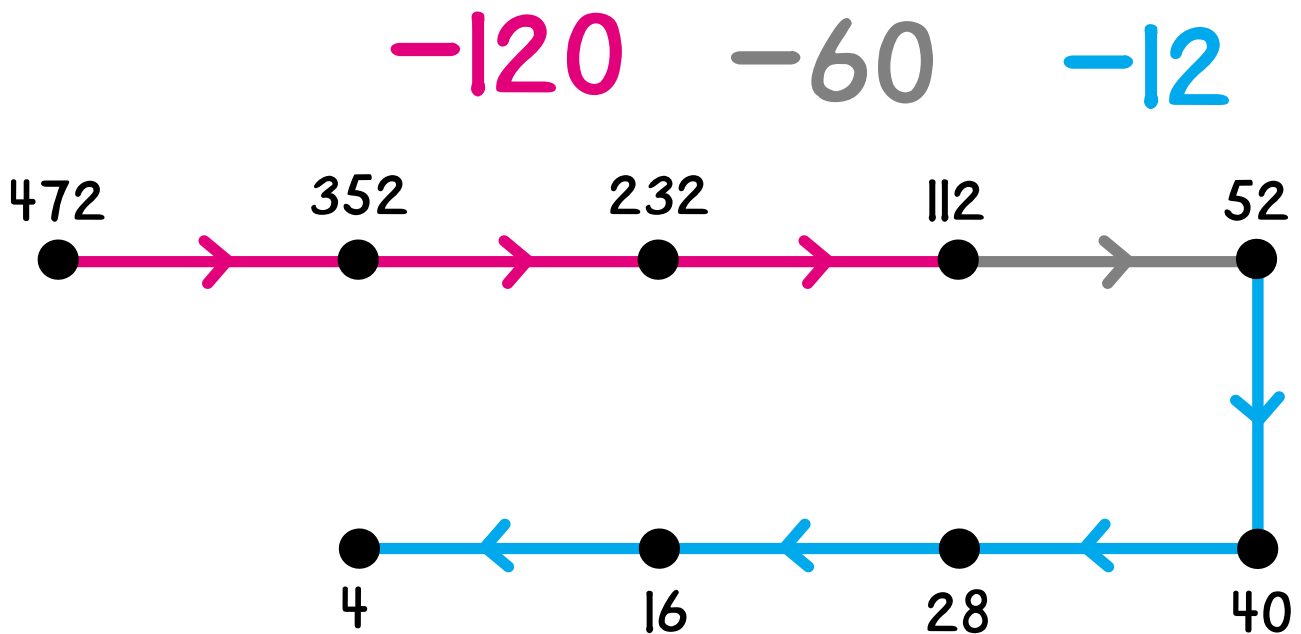
How many boxes does he need for 24 oranges? \_\_\_\_\_

... for 48 oranges? \_\_\_\_\_

... for 60 oranges? \_\_\_\_\_

... for 120 oranges? \_\_\_\_\_

One day Nabu is given 472 oranges to pack. Nabu uses this arrow road to decide how many boxes to get.

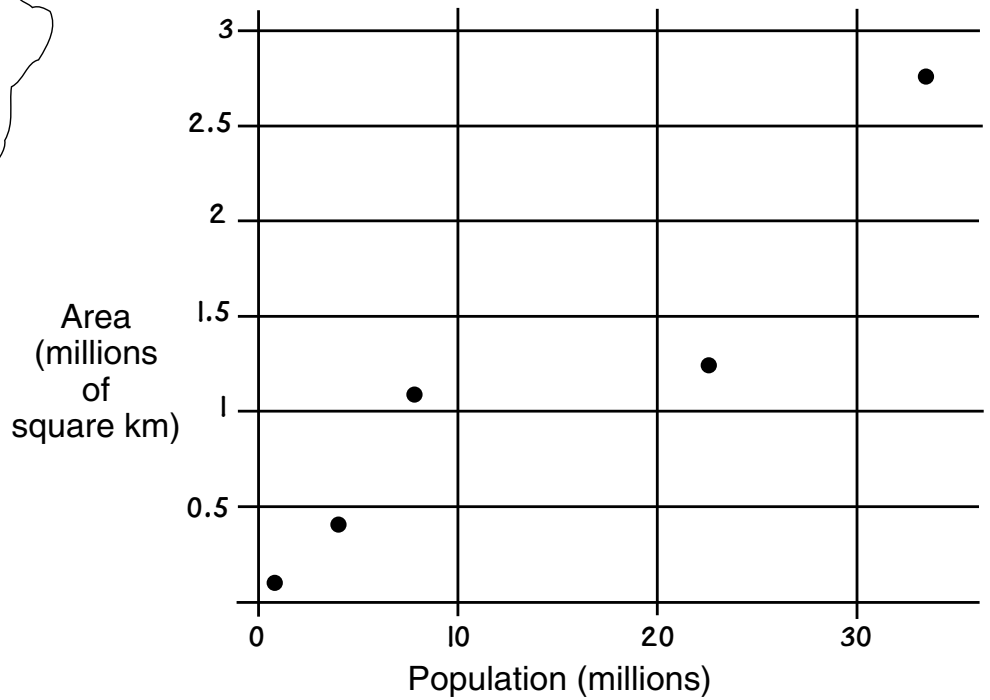
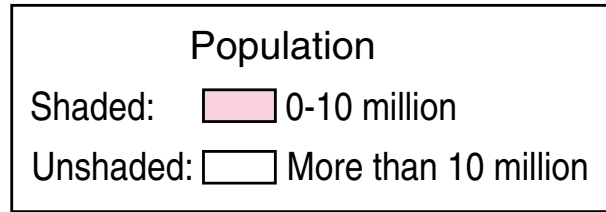


How many boxes can he fill? \_\_\_\_\_

How many oranges will not get packed? \_\_\_\_\_



## South America



The dots on the graph are for these five South American countries. Label the dots.

**Bolivia**

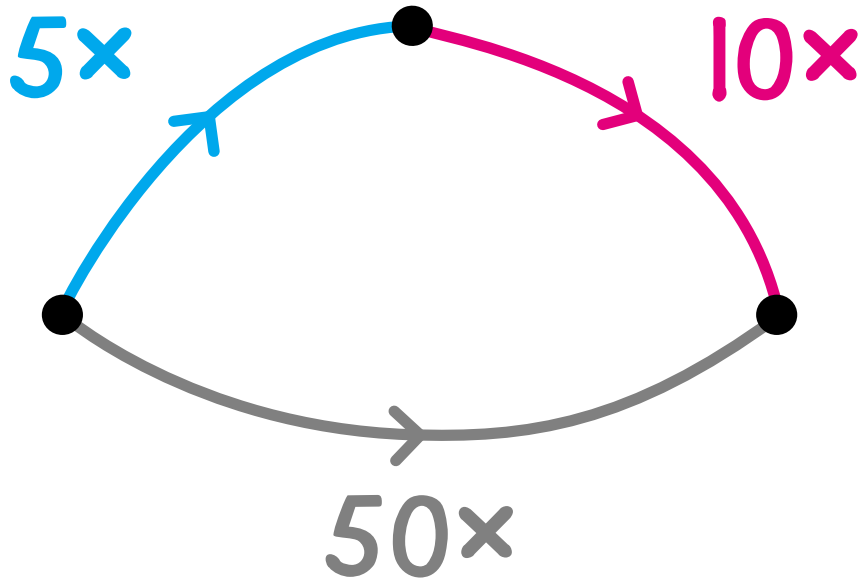
**Peru**

**Paraguay**

**Argentina**

**French Guiana**

Colombia has area a little less than Peru, but its population is about 12 million more than Peru's. Draw and label a dot for Colombia.



Use the arrow picture to help you to do these calculations.

$$50 \times 61 = \boxed{\phantom{000}}$$

$$50 \times 84 = \boxed{\phantom{000}}$$

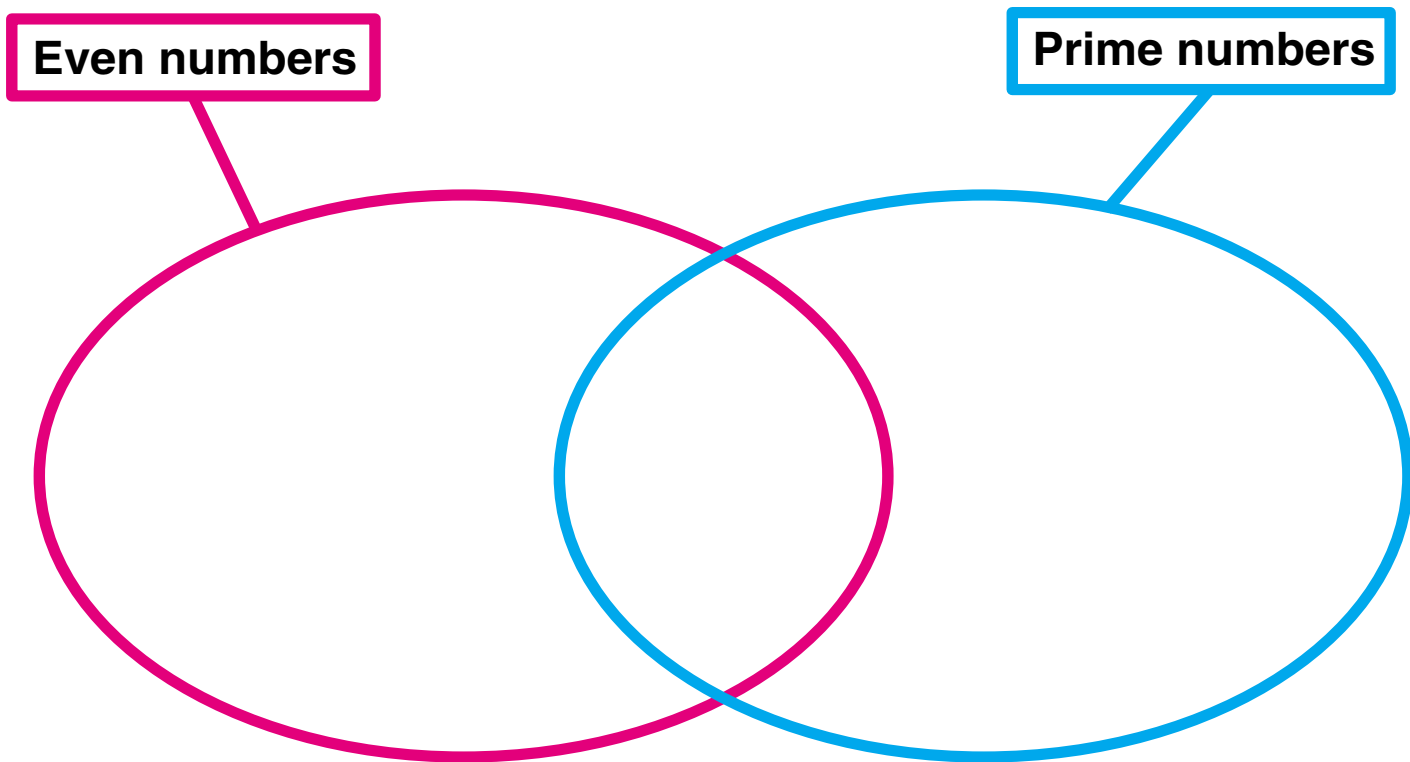
$$50 \times 901 = \boxed{\phantom{000}}$$

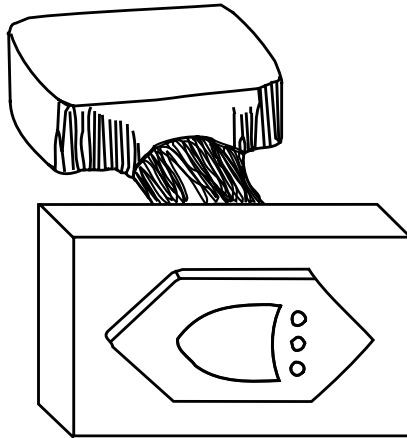
$$50 \times 73 = \boxed{\phantom{000}}$$

Put at most seven numbers in this picture.

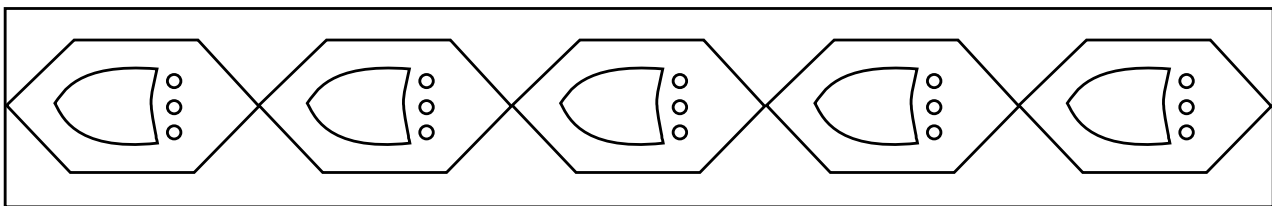
Put at least one number in each of the four regions.

Put exactly two numbers in the region outside of both strings.





With this stamper Jordan can put five designs on a ribbon 2.5 cm wide and 16 cm long.



How many designs can he stamp on a ribbon 2.5 cm wide and 32 cm long? \_\_\_\_\_

... on a ribbon 2.5 cm wide and 48 cm long? \_\_\_\_\_

... on a ribbon 2.5 cm wide and 64 cm long? \_\_\_\_\_

Do these computations.

$$\begin{array}{r} 56 \\ 56 \\ 56 \\ + 56 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 4 \\ \hline \end{array}$$

---

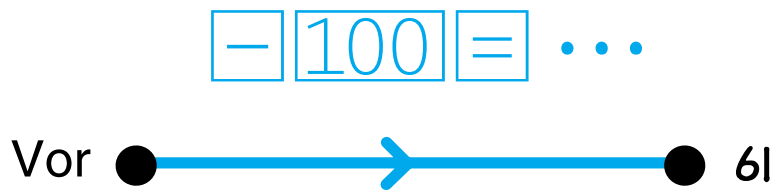
$$\begin{array}{r} 5.6 \\ 5.6 \\ 5.6 \\ + 5.6 \\ \hline \end{array}$$

$$\begin{array}{r} 5.6 \\ \times 4 \\ \hline \end{array}$$

---

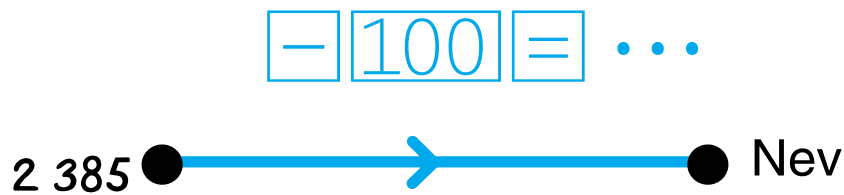
$$\begin{array}{r} 0.56 \\ 0.56 \\ 0.56 \\ + 0.56 \\ \hline \end{array}$$

$$\begin{array}{r} 0.56 \\ \times 4 \\ \hline \end{array}$$



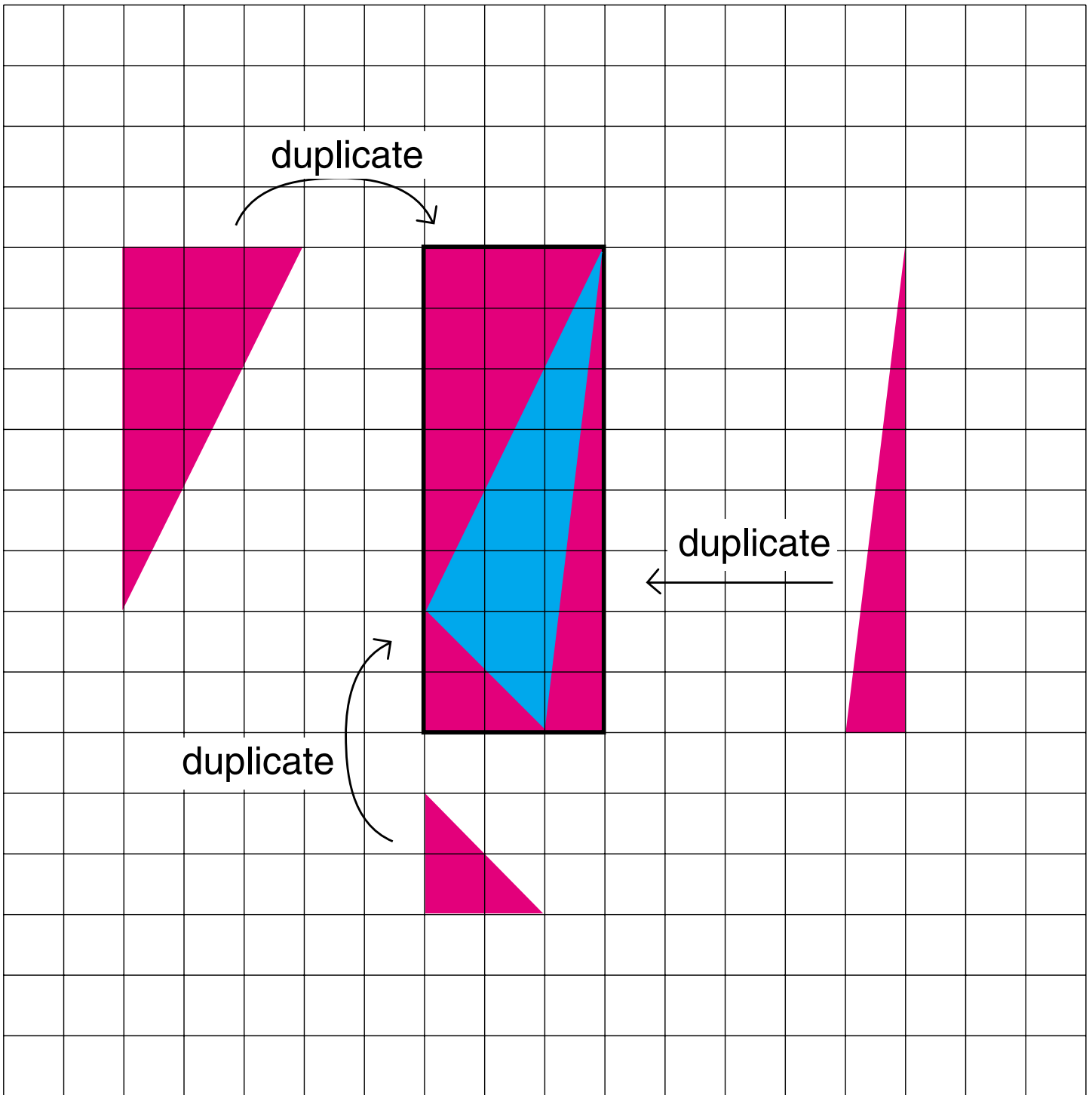
Circle the four numbers below that Vor could be.

- |            |              |                  |            |
|------------|--------------|------------------|------------|
| <b>700</b> | <b>2 061</b> | <b>1 000 061</b> | <b>416</b> |
| <b>861</b> | <b>391</b>   | <b>1 871</b>     | <b>661</b> |
- 



Circle the four numbers below that Nev could be.


- |              |                                 |           |                                  |
|--------------|---------------------------------|-----------|----------------------------------|
| <b>2 285</b> | <b><math>\widehat{5}</math></b> | <b>85</b> | <b><math>\widehat{15}</math></b> |
| <b>3 085</b> | <b>385</b>                      | <b>0</b>  | <b><math>\widehat{85}</math></b> |





Total area of the three red triangles: \_\_\_\_\_  $\text{cm}^2$


Area of the blue triangle: \_\_\_\_\_  $\text{cm}^2$

Draw all of the blue arrows that are possible between these five dots.


is less than  


$$3 \times 15$$


$$4 \times 15$$


$$3 \times 14.9$$


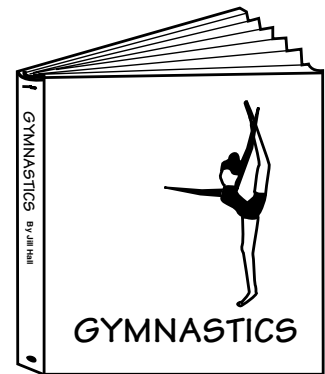

$$3 \times 14.8$$


$$3 \times 16$$

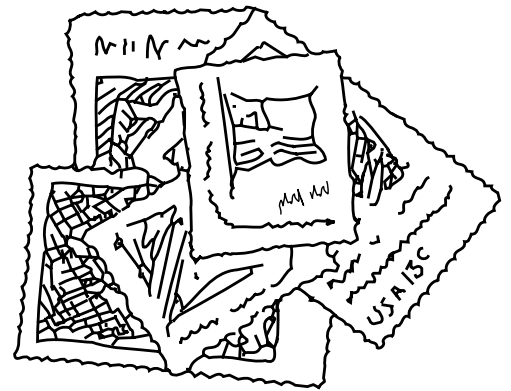
You should have ten arrows.



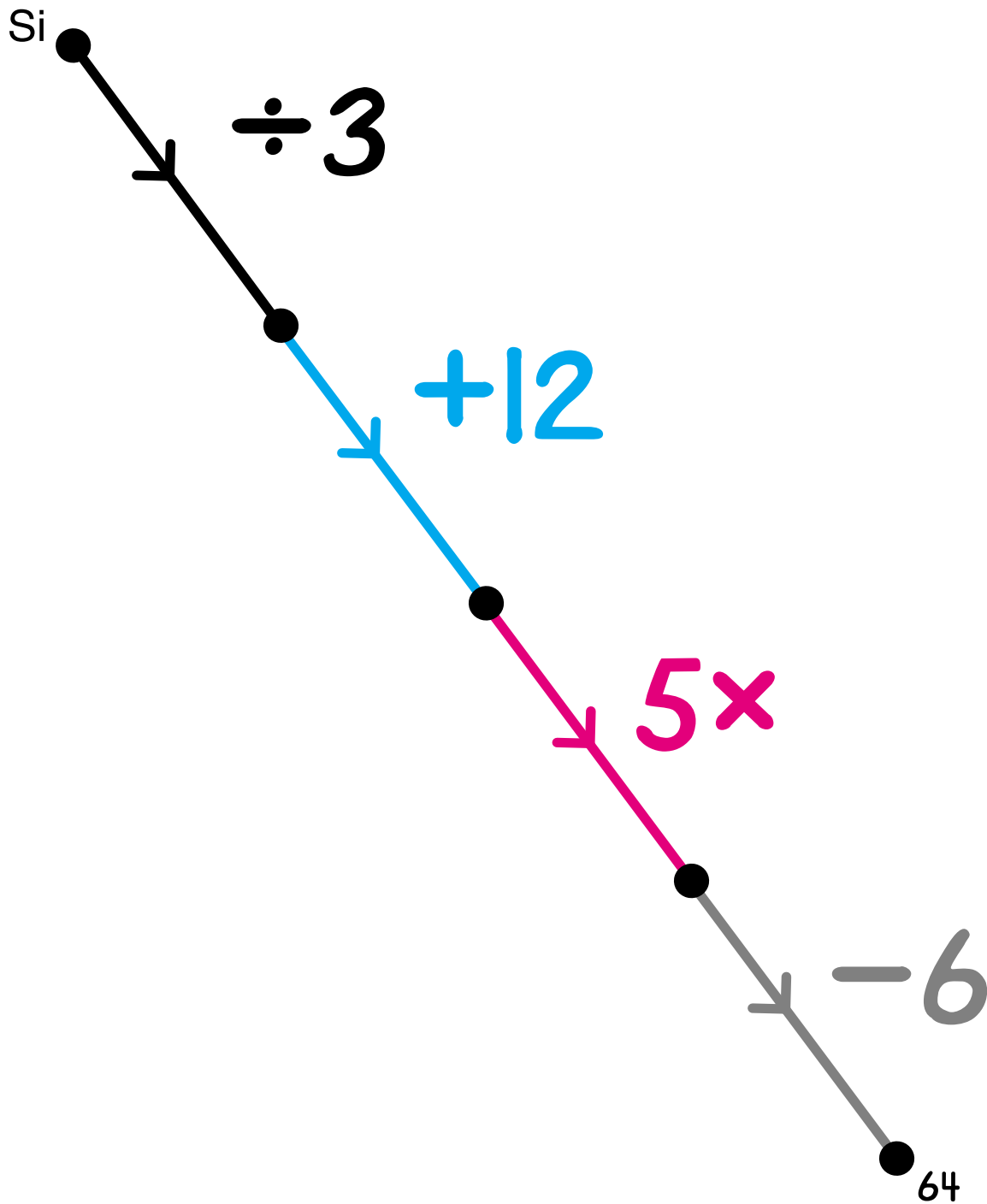
Rosa earns \$1.85 a week doing errands. How many weeks will it take her to earn enough money to buy a book on gymnastics that costs \$8.95? \_\_\_\_\_ Will she have any money left over? \_\_\_\_\_ If so, how much? \_\_\_\_\_



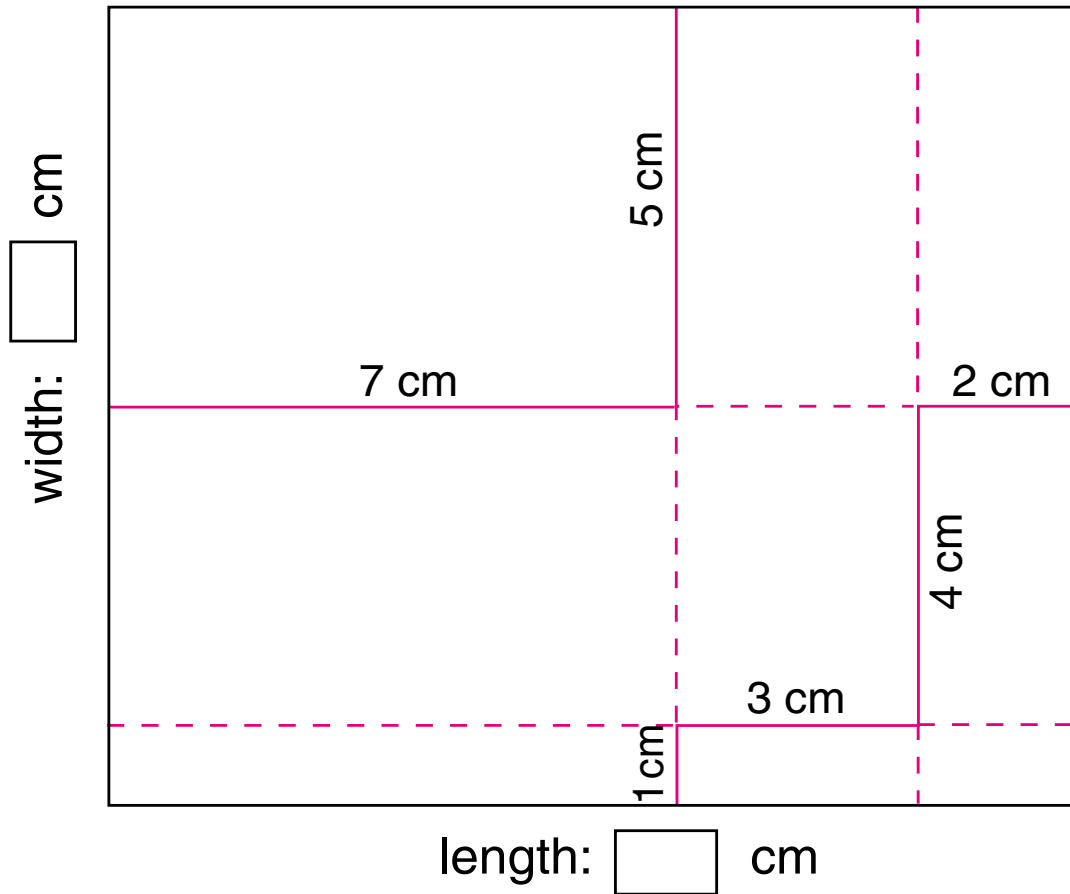
Davin owes his parents \$16.80 that he borrowed to buy some special stamps for his collection. He would like to pay it back in four weeks, the same amount each week. How much should he pay them each week? \_\_\_\_\_



Si is the starting number of this arrow road.



Who is Si? \_\_\_\_\_



Fill in the boxes. Do not use a ruler.

What is the area of the large black rectangle? \_\_\_\_\_  $\text{cm}^2$



Build an arrow road from 9 to 112.5 using  $\div 2$  and  $10\times$  arrows.

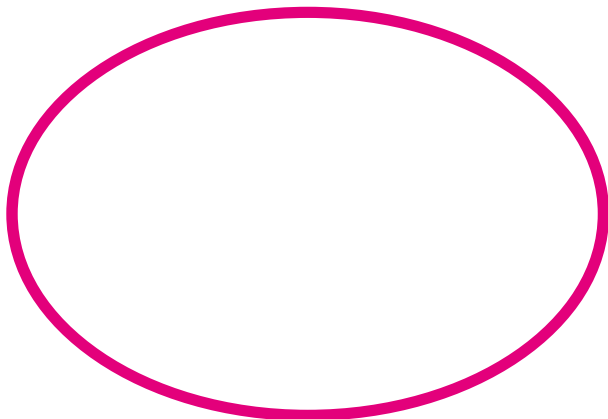
$\div 2$

$10\times$

112.5  
●

9  
●

Suppose we know that this red string is either for multiples of 3 or for positive divisors of 24.



**Multiples of 3**

or

**Positive divisors of 24**

Draw a circle around each number below that we know for sure belongs inside the red string.

Draw a rectangle around each number below that we know for sure belongs outside the red string.

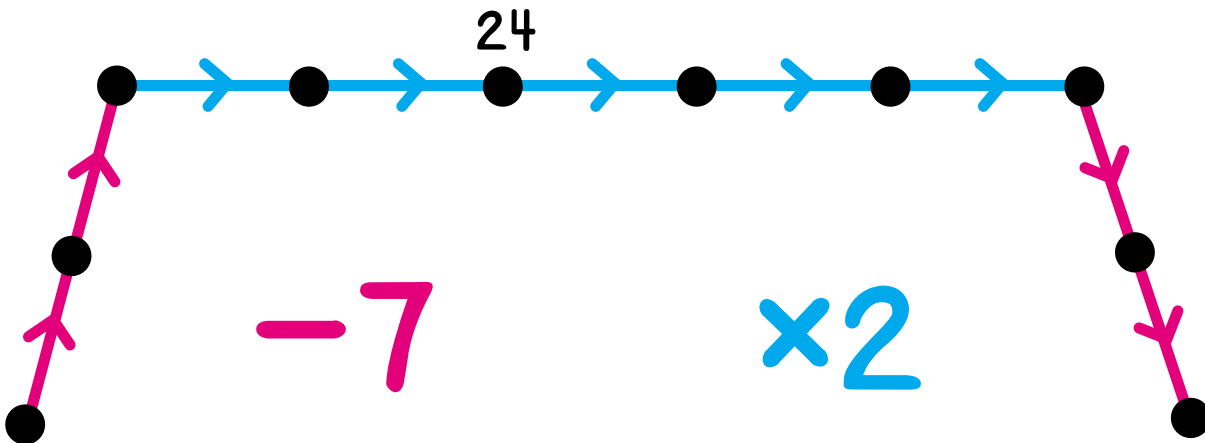
3	24	4	9
8	19	62	6

NOTE: Some of the numbers should have neither a circle nor a triangle around them because we cannot tell for sure where they belong.

Tick is a secret number.

Clue 1

Tick is in this arrow picture.



Clue 2



Tick could be \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_.

Clue 3

Tick cannot be put on the Minicomputer using only ⑧-checkers.

Who is Tick? \_\_\_\_\_

Put the five number cards 1 2 3 4 5 in the spaces of this multiplication problem. Use all the cards, each card once.

$$\begin{array}{r} \square \square \square \\ \times \square \square \\ \hline \end{array}$$

What is the greatest product you can get? \_\_\_\_\_  
Explain.

What is the least product you can get? \_\_\_\_\_  
Explain.

Can you get a product between 13 000 and 14 000? \_\_\_\_\_  
Explain.

What product is as close as possible to 10 000? \_\_\_\_\_  
Explain.