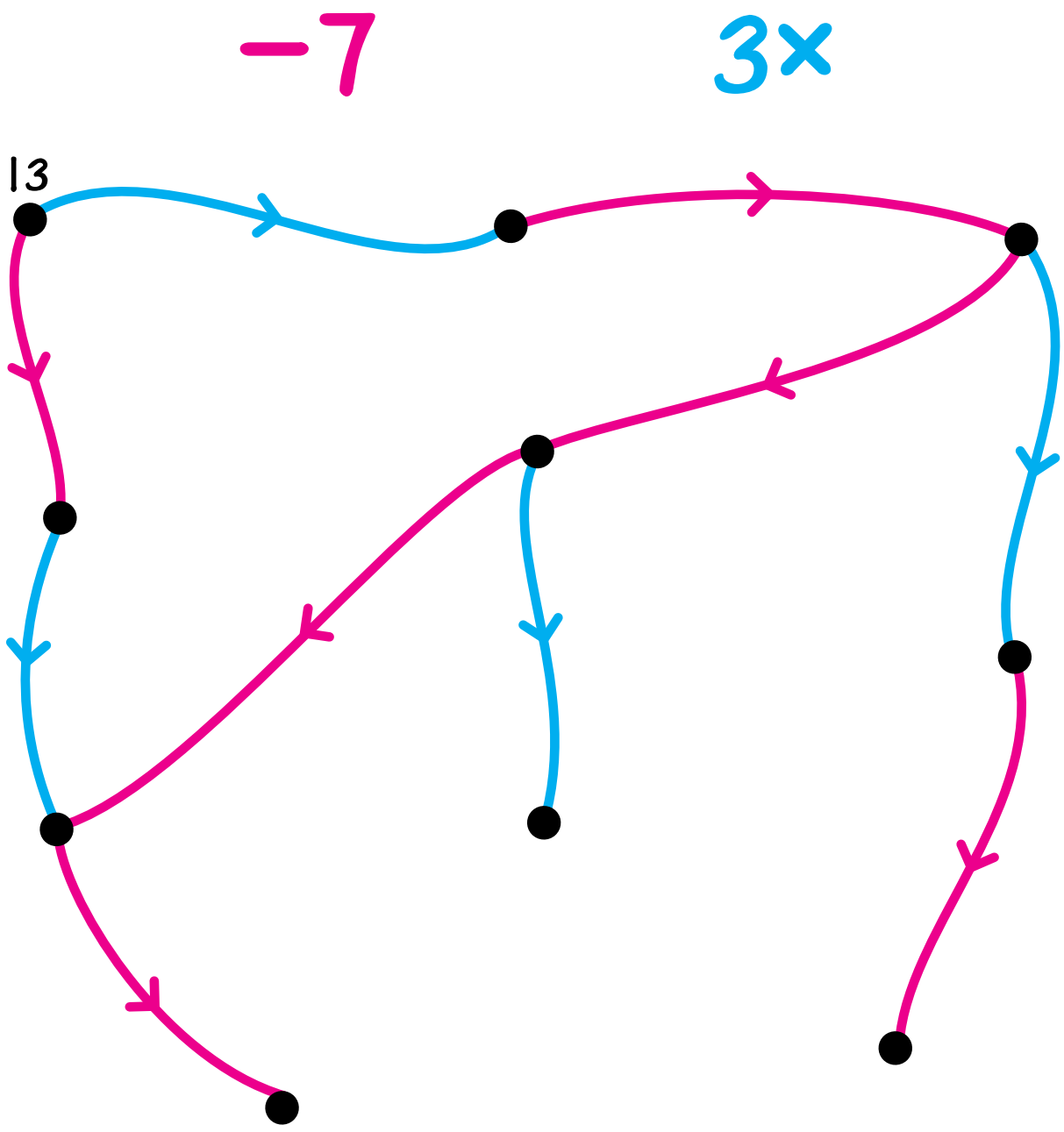
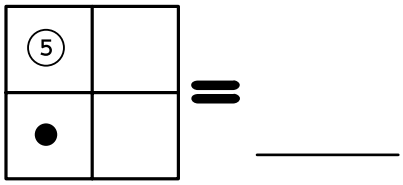
Name _____

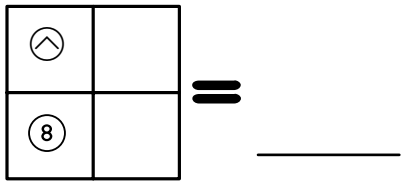
Variety of Problems #3

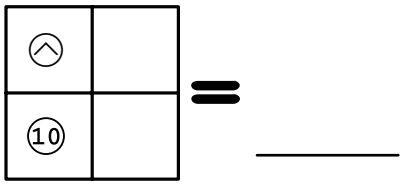
Label the dots. Circle the four even numbers.

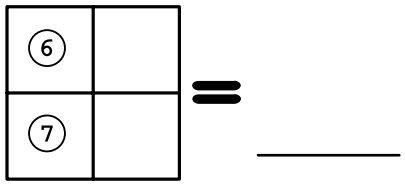


What number is on the Minicomputer?

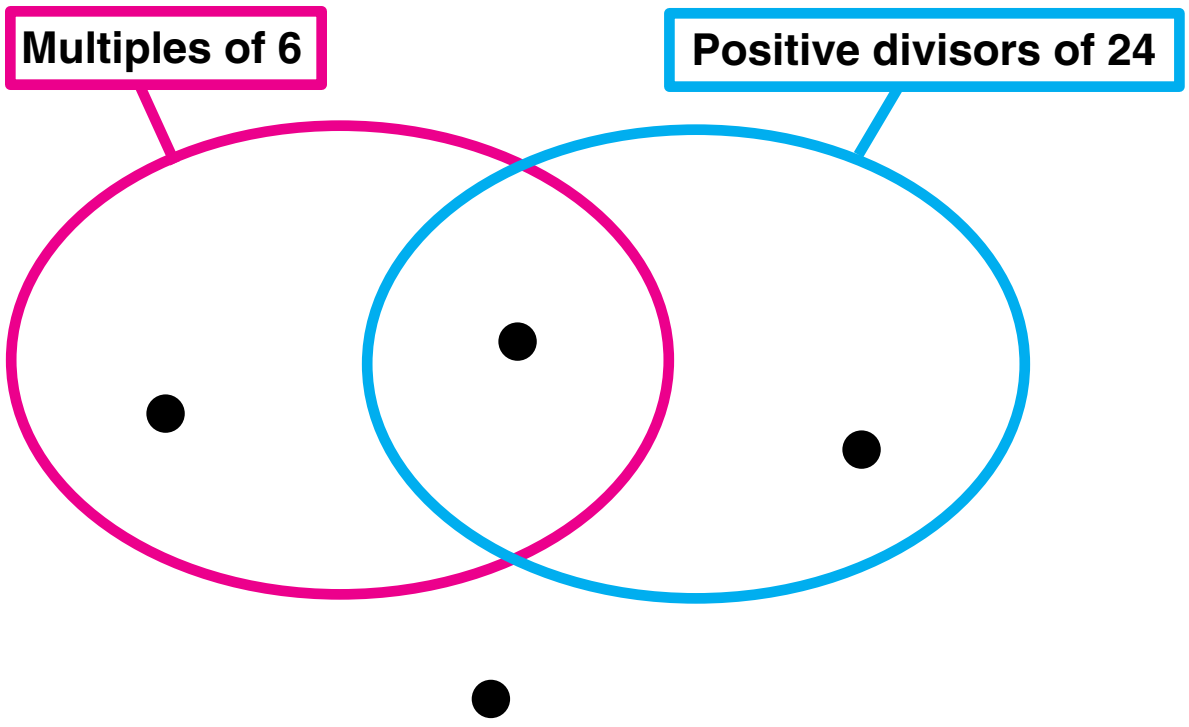




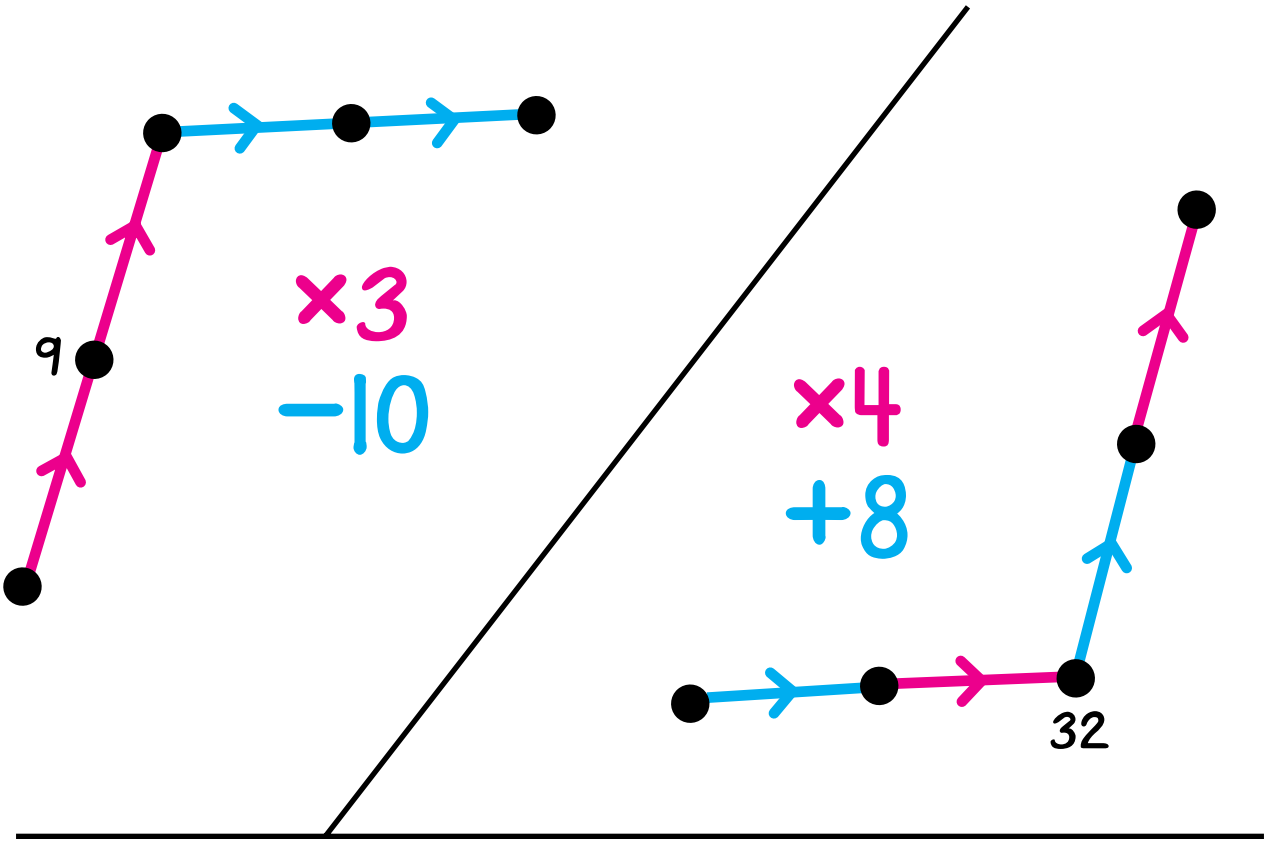


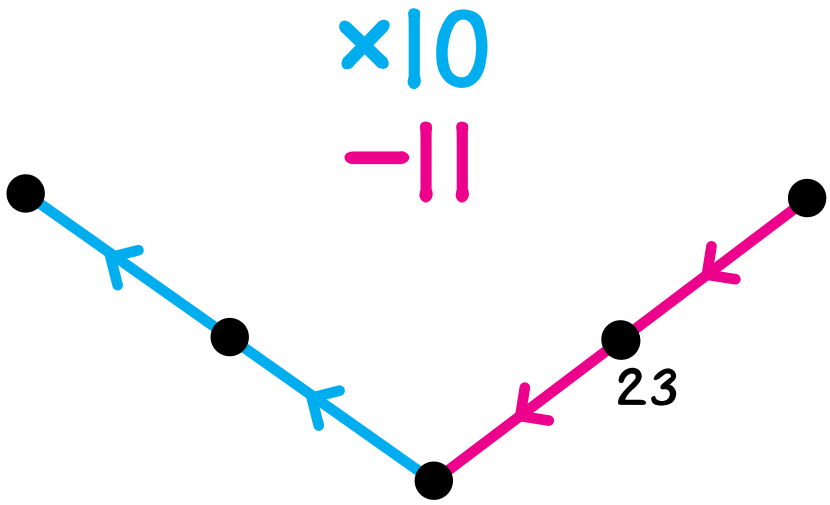


Label the dots with the four numbers on the Minicomputer.



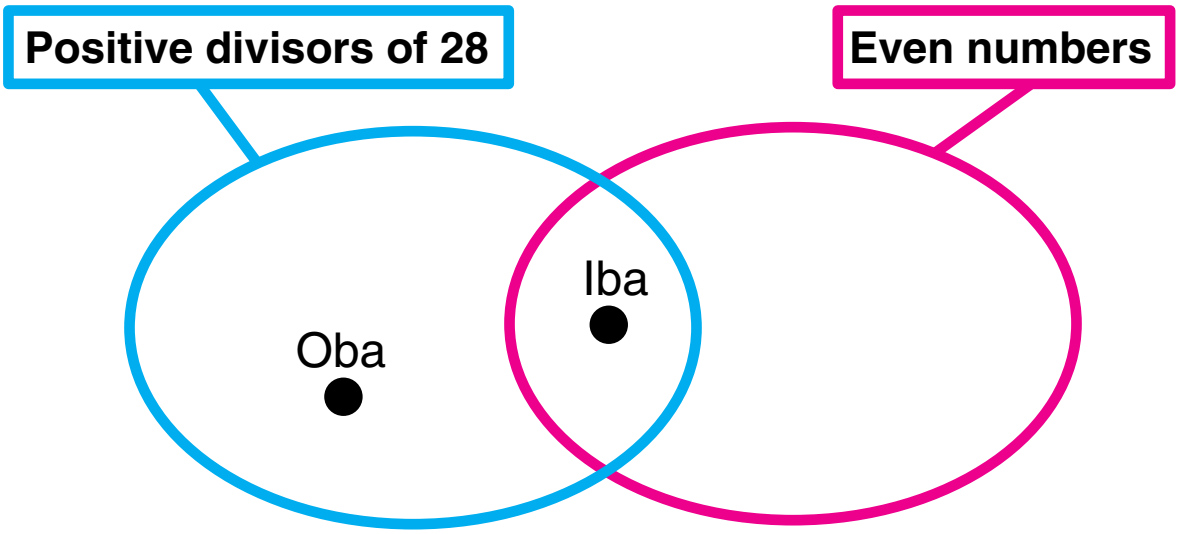
One positive divisor of 24 is in each of these pictures. In each picture, circle its dot. Label all of the dots.





Oba and Iba are secret numbers.

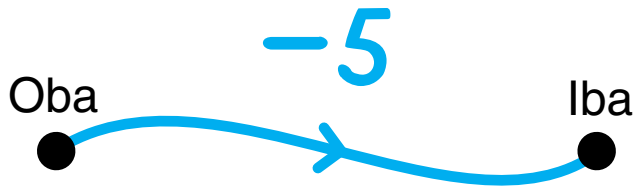
Clue 1



Oba could be _____ or _____.

Iba could be _____, _____, _____, or _____.

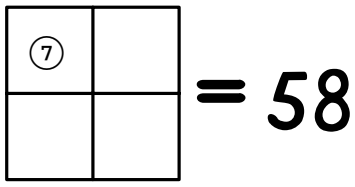
Clue 2



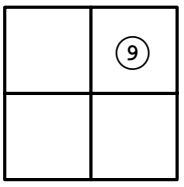
Who is Oba? _____

Who is Iba? _____

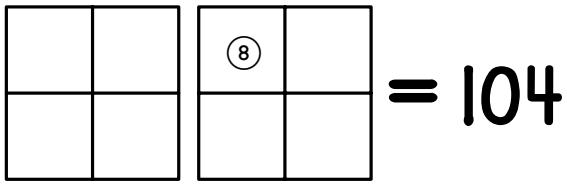
Put each number on the Minicomputer by adding exactly one regular checker.



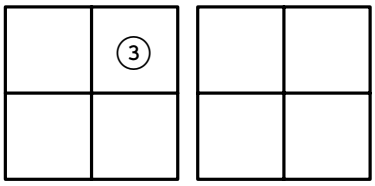
= 58



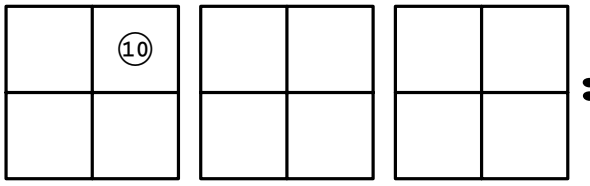
= 44



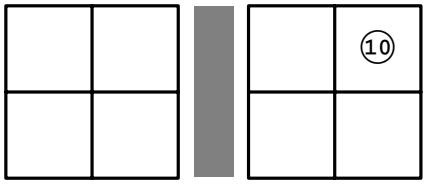
= 104



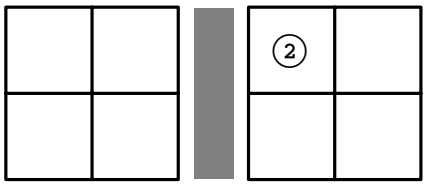
= 140



= 4 080



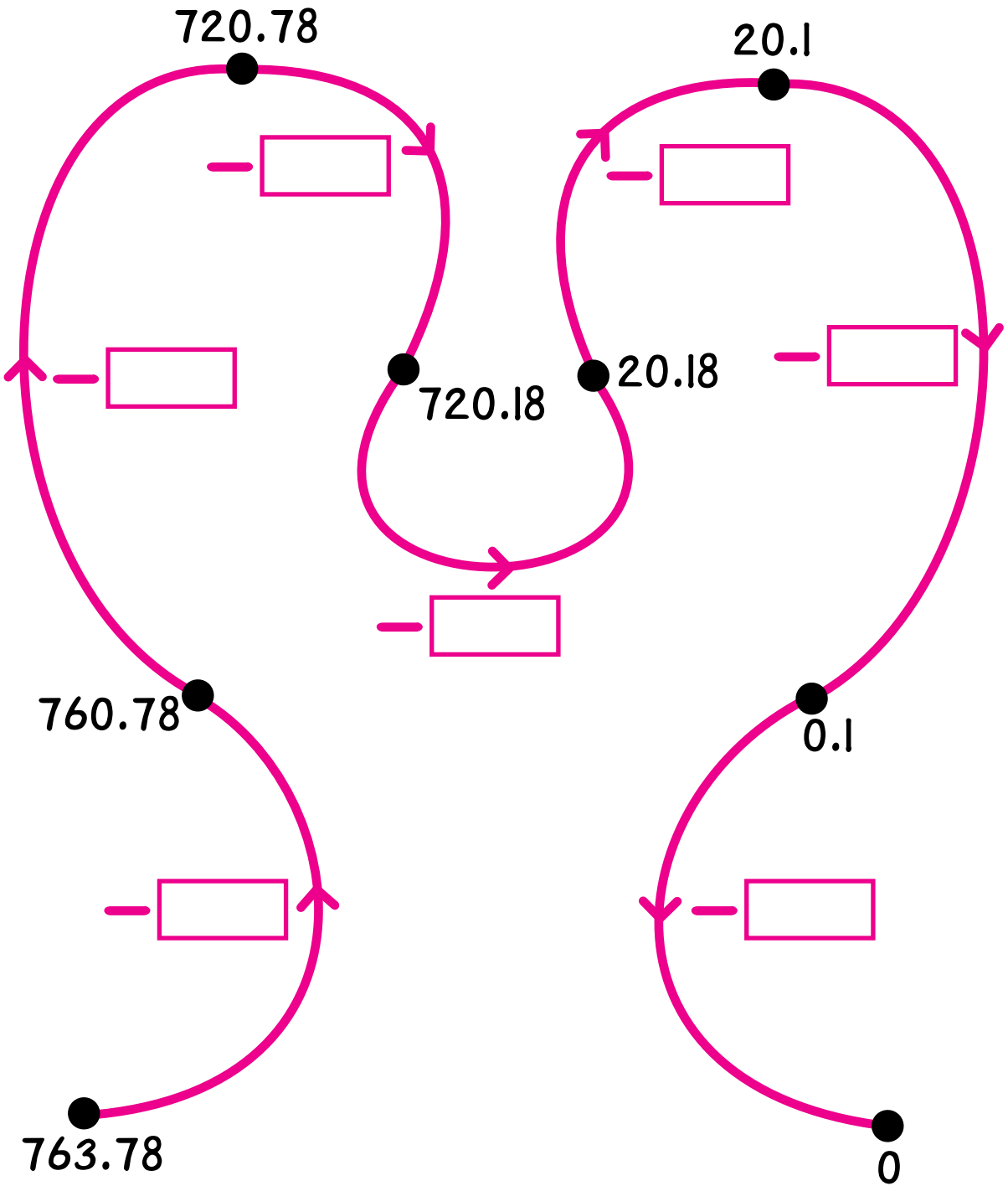
= 4.2



= 3.6

WIPE-OUT

Fill in the boxes for the arrows.



Build a road between 9 and 118 using these cords.

+1 or −1

10× or ÷10

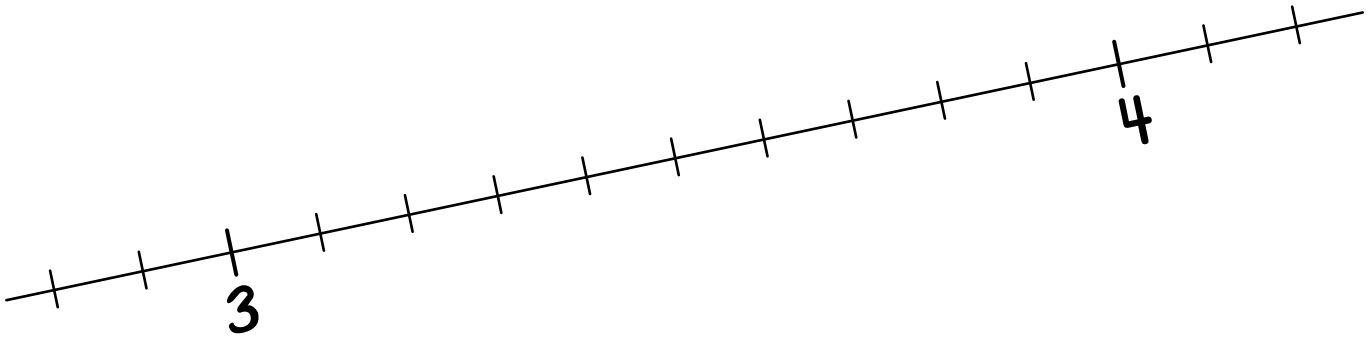
9 ●

● 118

How many cords did you use? _____

Locate these numbers on the number line.

3.5 3.2 3.25 3.05



Draw all of the possible blue arrows in this picture.

7×3.2

is greater than

7×3.5

7×3.25

7×3.05

Add.

$463 + 58.45$

Subtract.

$63.24 - 58.7$

Multiply.

837×6

Multiply.

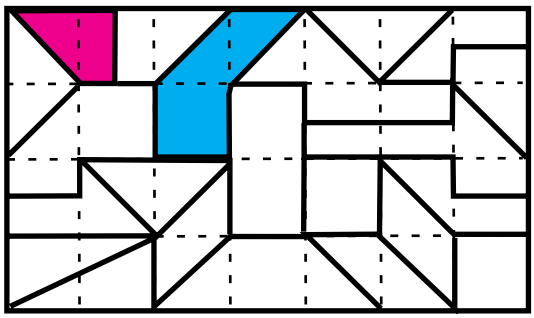
49×65

 has area 1 cm^2

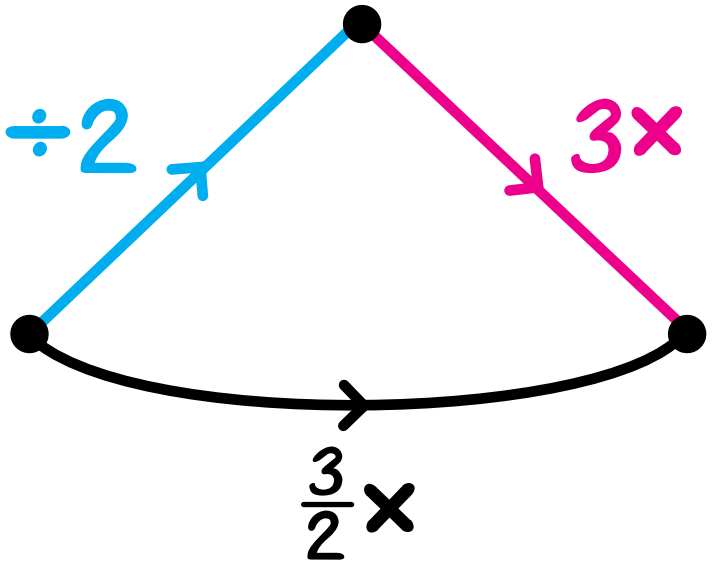
Use red to color all shapes of area 1 cm^2.

Use blue to color all shapes of area 2 cm^2.

Two shapes are colored for you.



When you finish, the picture should be completely colored red and blue.

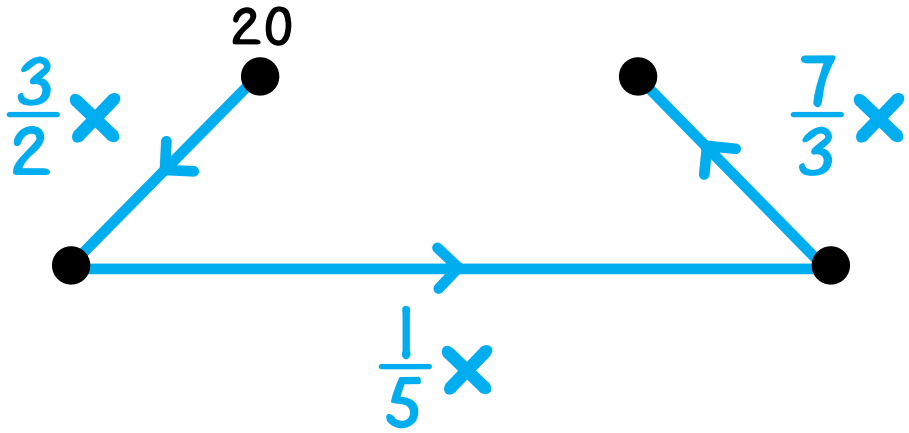


Complete.

$\frac{3}{2} \times 14 =$ _____ $\frac{3}{2} \times 18 =$ _____

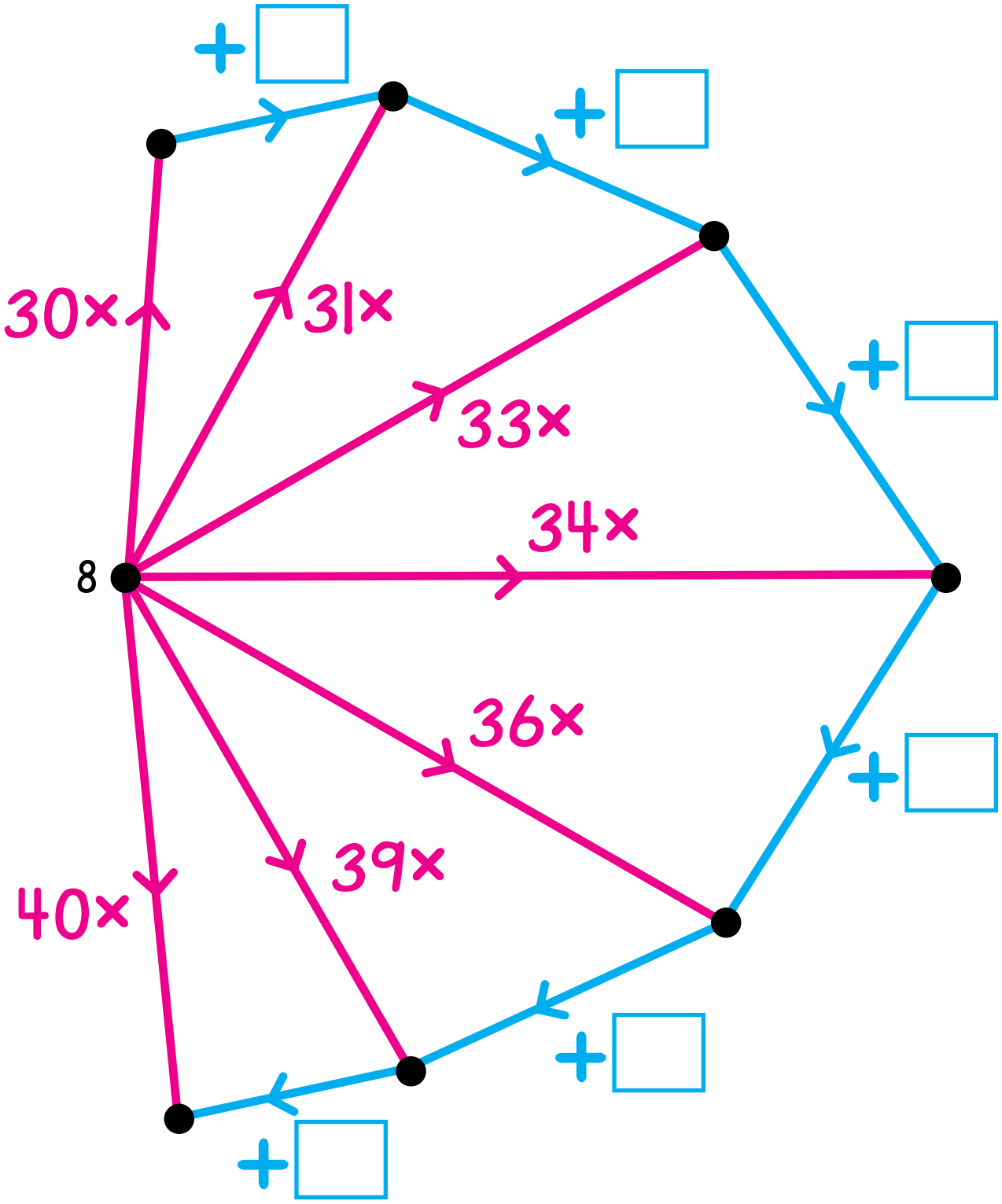
$\frac{3}{2} \times 140 =$ _____ $\frac{3}{2} \times 5 =$ _____

Label the dots.

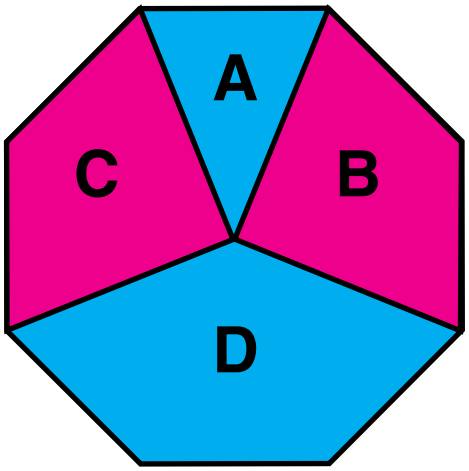


Fill in the boxes for the blue arrows.

Label the dots.



What fraction of the shape is each region?

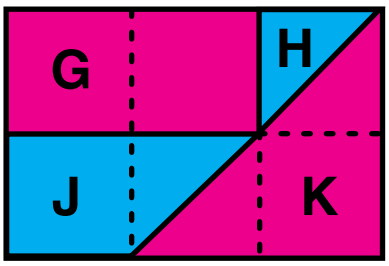


A: _____
B: _____
C: _____
D: _____

What fraction of the shape is red? _____

What fraction of the shape is blue? _____

What fraction of the shape is each region?



G: _____
H: _____
J: _____
K: _____

What fraction of the shape is red? _____

What fraction of the shape is blue? _____

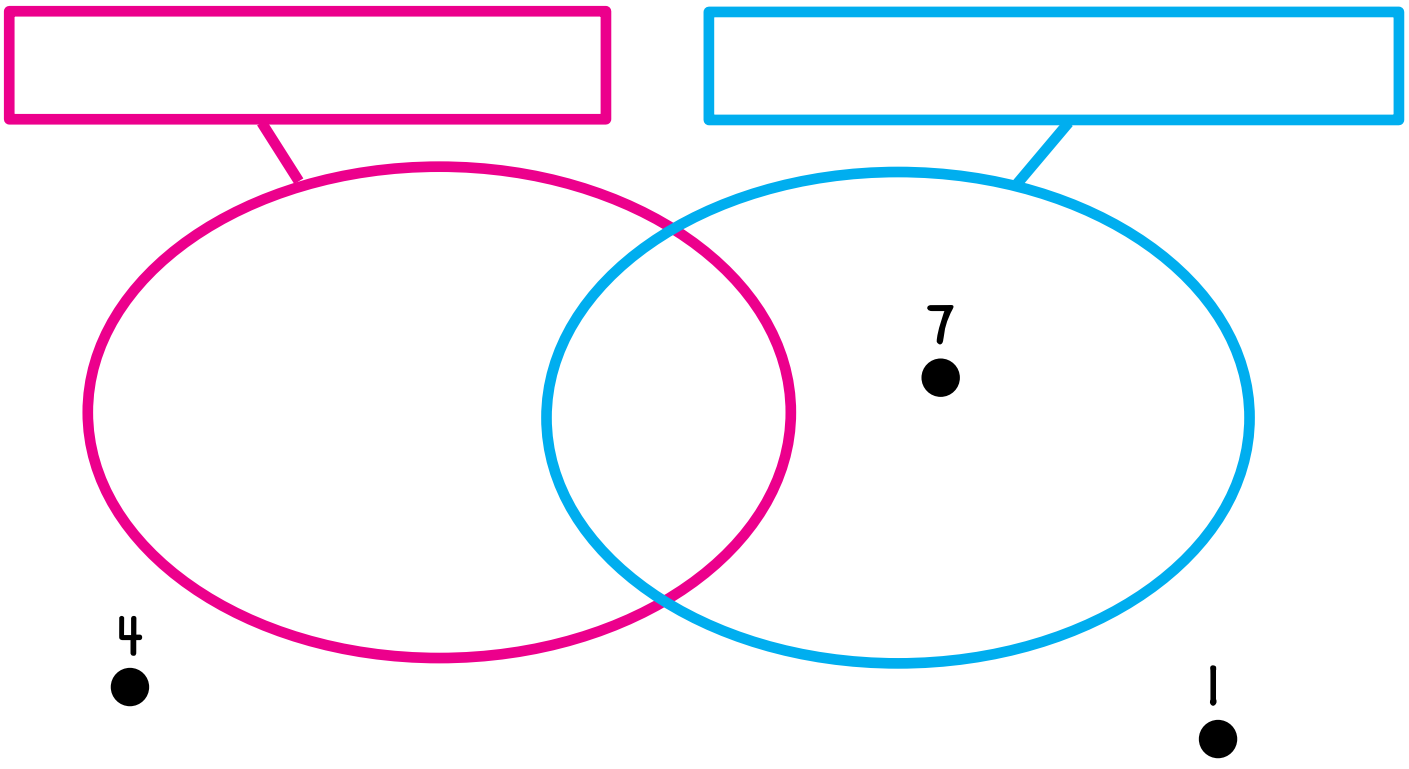
The red label is one of these:

Positive prime numbers
Positive divisors of 12
Multiples of 3
Greater than $\widehat{20}$
Less than 20
Odd numbers

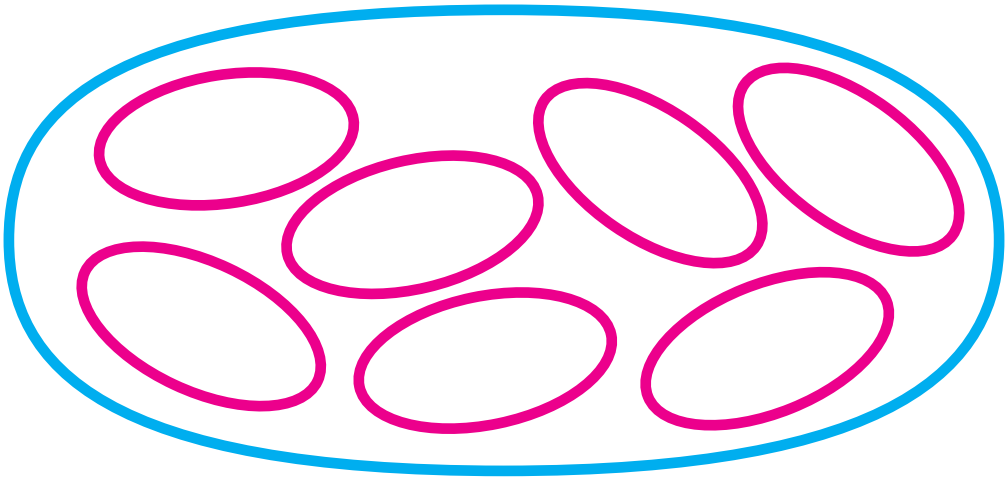
The blue label is one of these:

Positive prime numbers
Positive divisors of 12
Multiples of 3
Greater than $\widehat{20}$
Less than 20
Odd numbers

Label the strings.



Share 301 newspapers fairly among seven children.

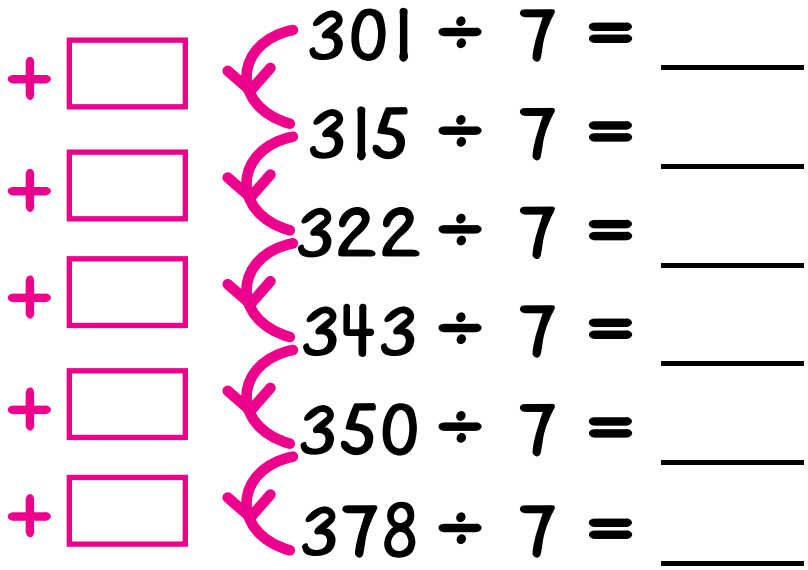


Complete.

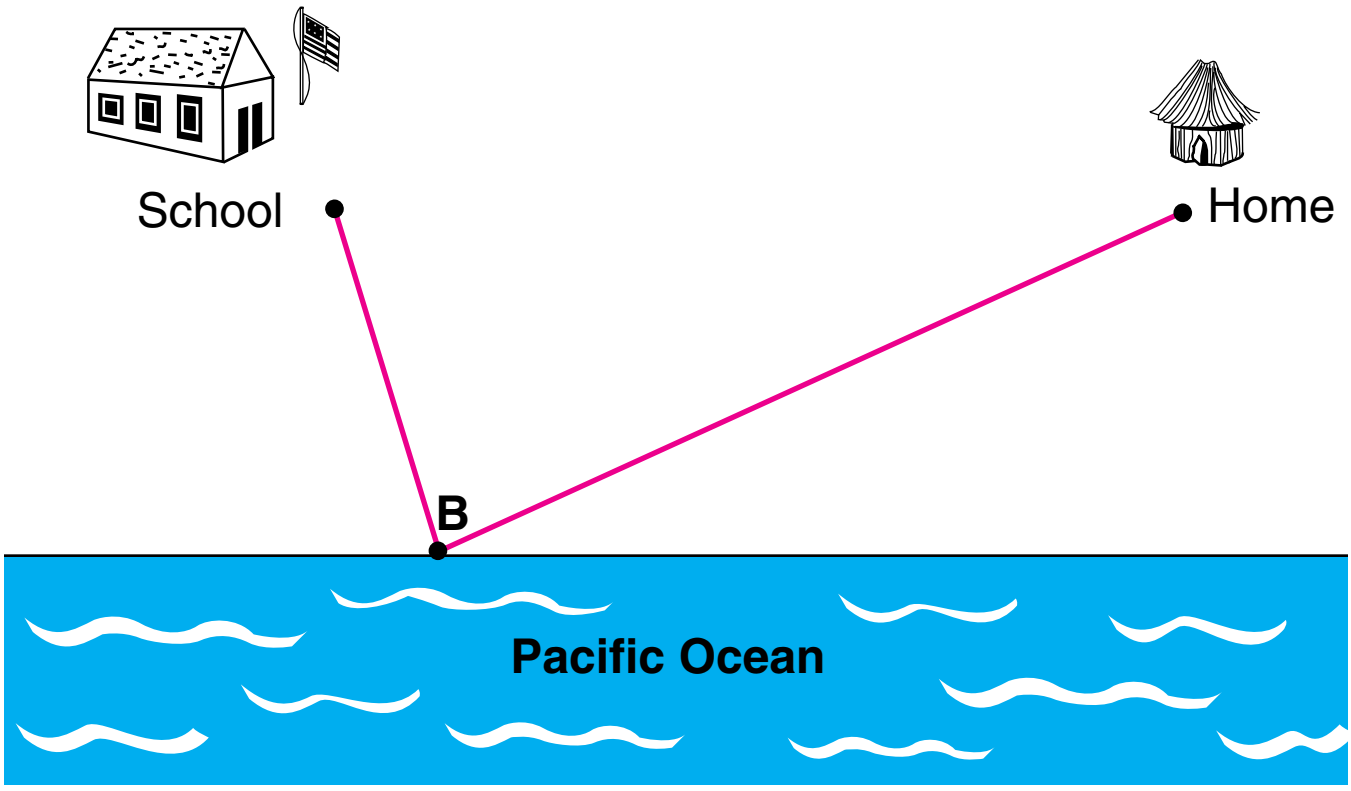
$$301 \div 7 = \_\_\_\_$$

Ask your teacher to check your answer to the above division problem before you solve the problems below. Use your answer to help solve these problems.

Label the red arrows and fill in the blanks.



After school each day, Adele walks to the Pacific Ocean for a swim. The map shows her route to go swimming at **B**.

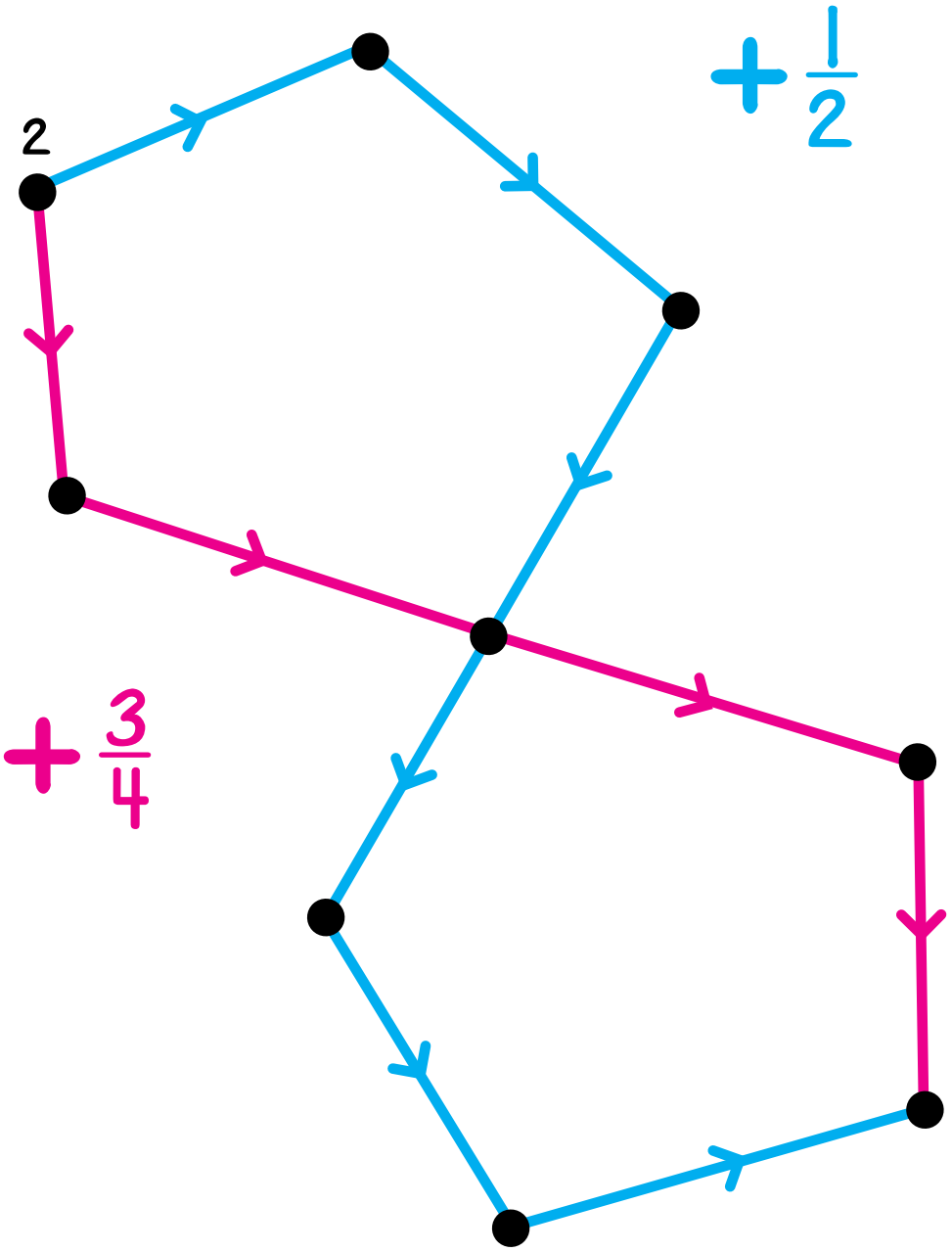


What is the total map distance of her walk from school to **B** to home? _____ cm

Adele thinks she can shorten her walking distance by swimming somewhere else on the beach. Draw a dot at another place Adele could swim and label it **C**. Measure the total map distance of her walk from school to **C** to home. _____cm

Which route is shorter? _____

Label the dots.



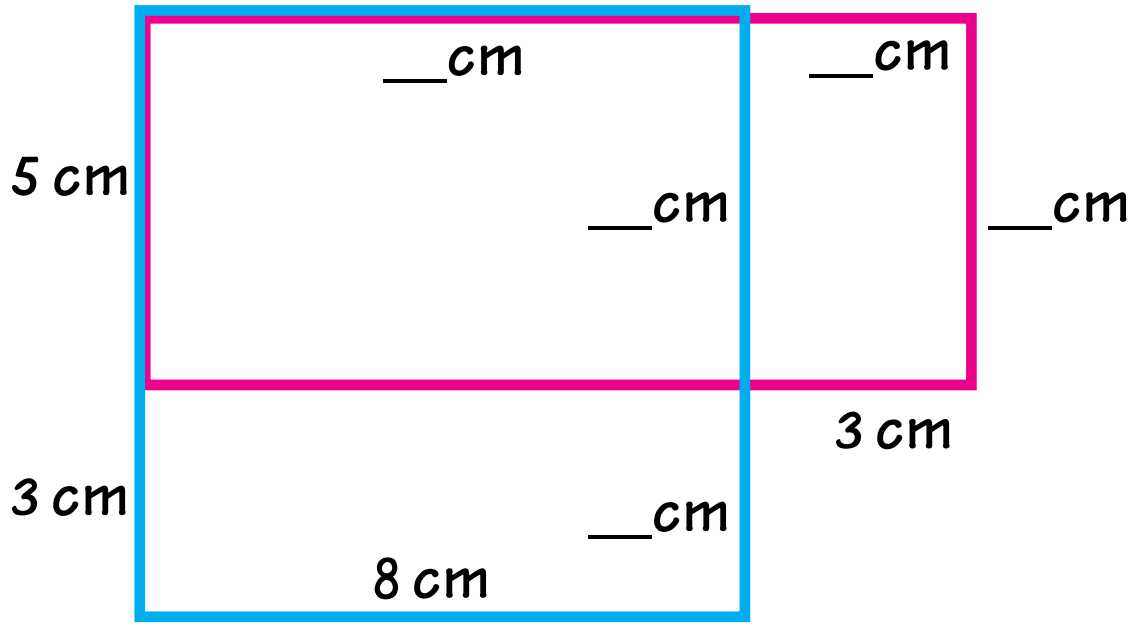
Nabu must pack 3 137 doughnuts into boxes. Each box holds 13 doughnuts.

Build an arrow road from 3 137 to the least possible whole number using these arrows.

How many boxes of doughnuts does Nabu pack? _____

How many doughnuts are left over? _____

Fill in the blanks. You should not need a ruler.



Complete.

What is the perimeter of the red rectangle? _____cm

What is the perimeter of the blue rectangle? _____cm

Does the red rectangle or the blue rectangle have the greater perimeter? _____

What is the area of the red rectangle? _____cm^2

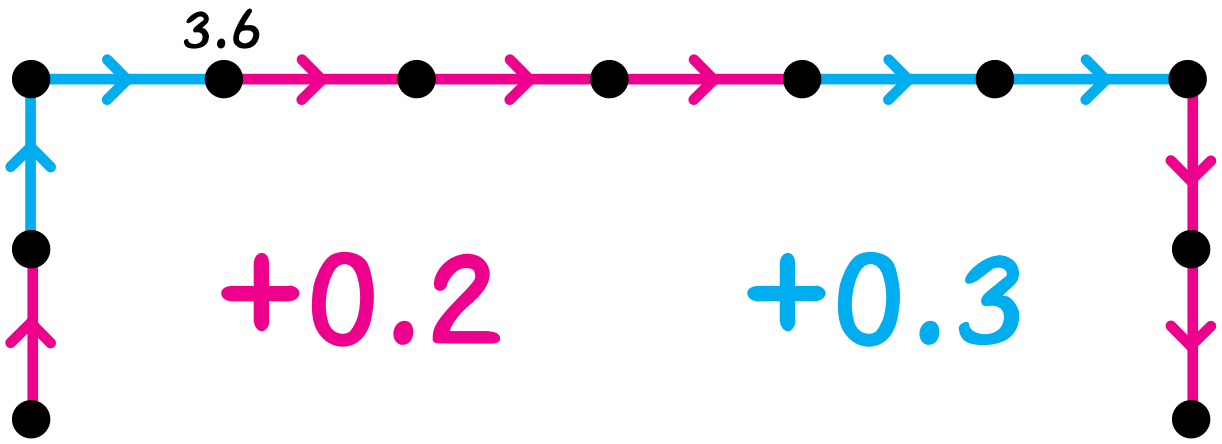
What is the area of the blue rectangle? _____cm^2

Does the red rectangle or the blue rectangle have the larger area? _____

Zu is a secret number.

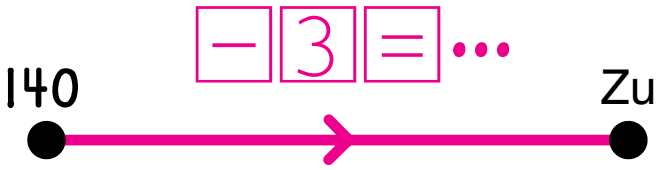
Clue 1

Zu is a whole number and is in this arrow picture.



Zu could be _____, _____, or _____.

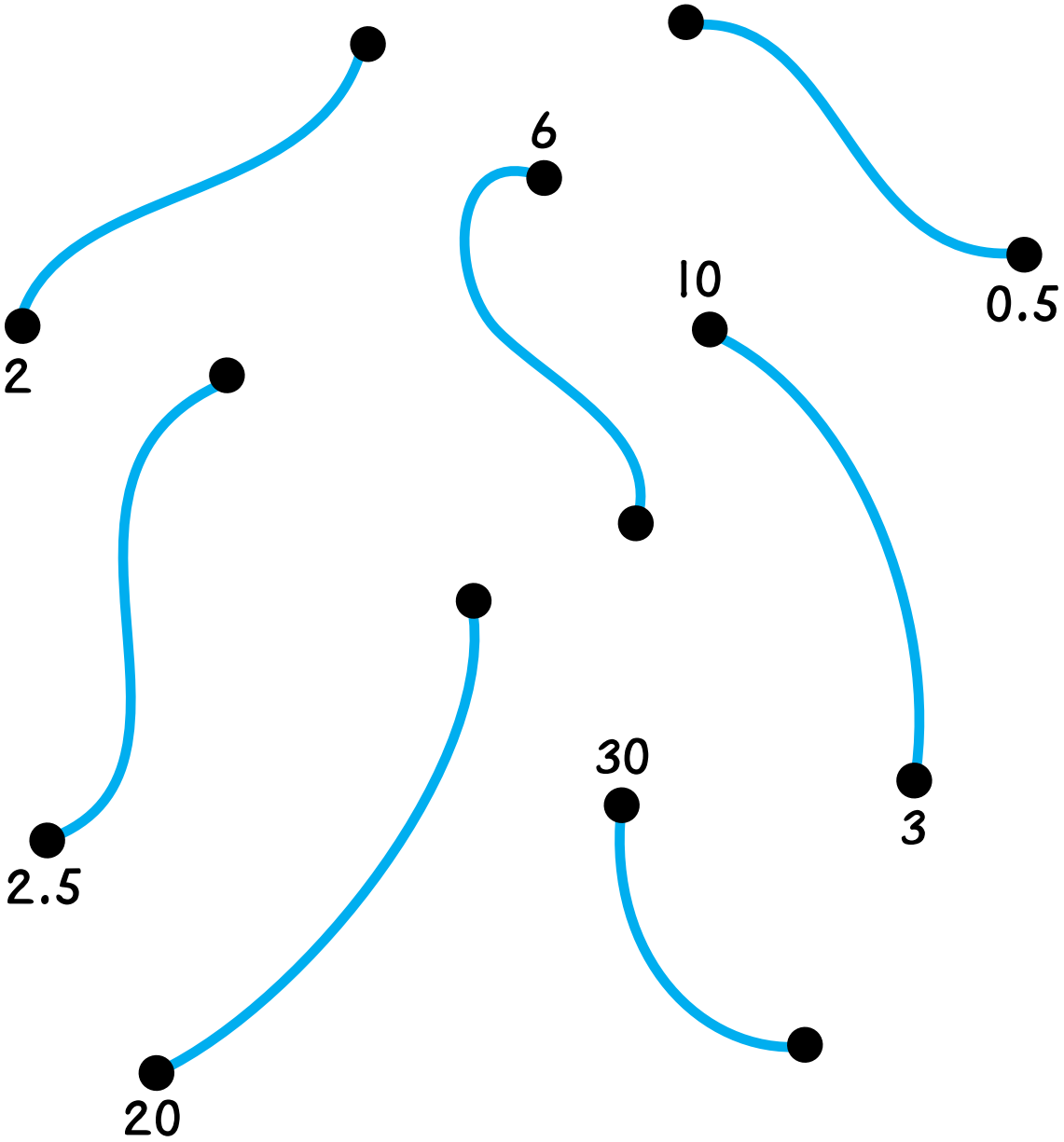
Clue 2



Who is Zu? _____

Label the dots. Both dot labels are given for one of the cords.

Two numbers are joined by a blue cord
if and only if
their product is 30.



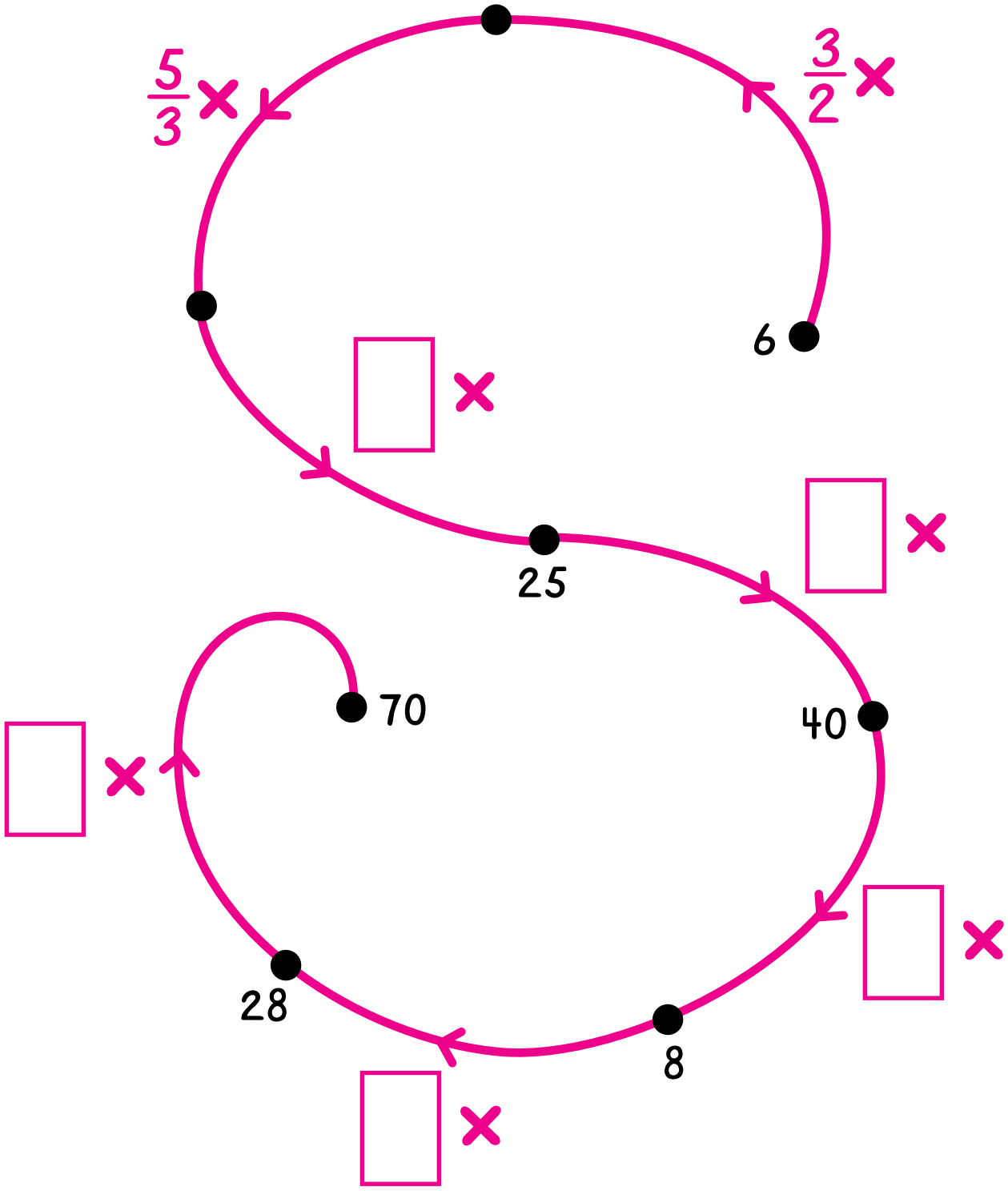
A score is twenty. How many years is fourscore and seven years? _____

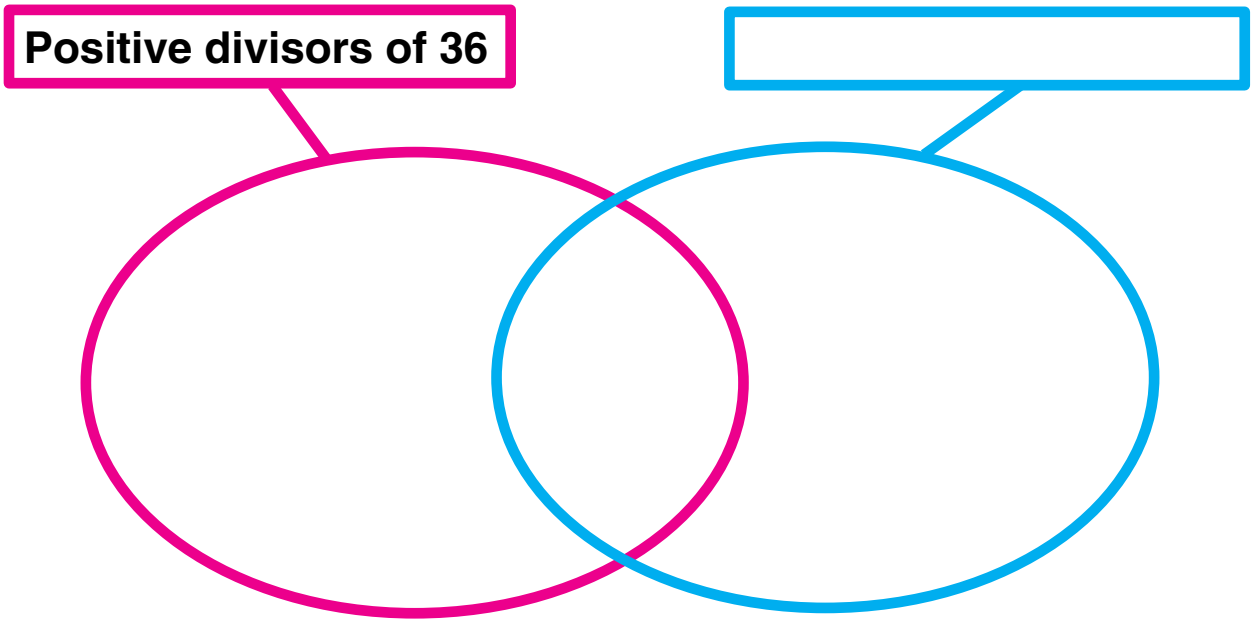
There are 60 minutes in an hour, 24 hours in a day, and 365 days in a year. How many minutes are in a year? _____

A gross is a dozen dozen. A great gross is a dozen gross. How many are in a great gross? _____

A yard is 3 feet and a rod is $5\frac{1}{2}$ yards. A furlong is 40 rods.
How many yards in a furlong? _____
How many feet in a furlong? _____

Label the dots and fill in the boxes for the arrows.





The blue label is one of these:

Multiples of 3 or **Greater than 10** .

We can be certain where four of these numbers belong in the string picture. Put those four numbers in the string picture.

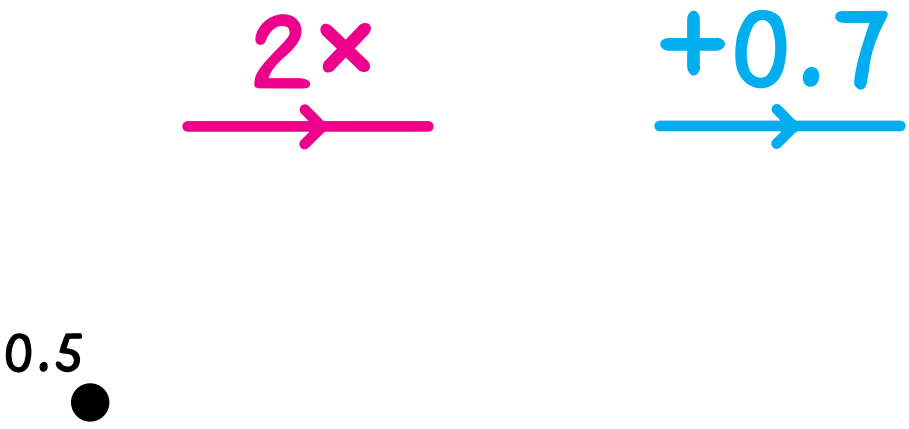
4 6 20 111 11 18

We can't tell for sure where two of these numbers belong in the string picture. Circle these two numbers.

Shig is a secret number.

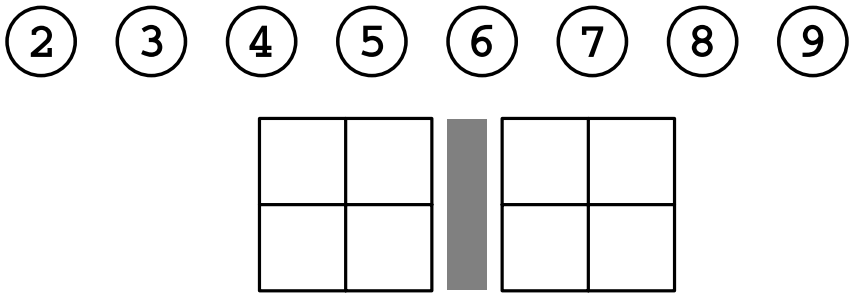
Clue 1

Shig is the ending number of an arrow road starting at 0.5 and using exactly two red arrows and two blue arrows.



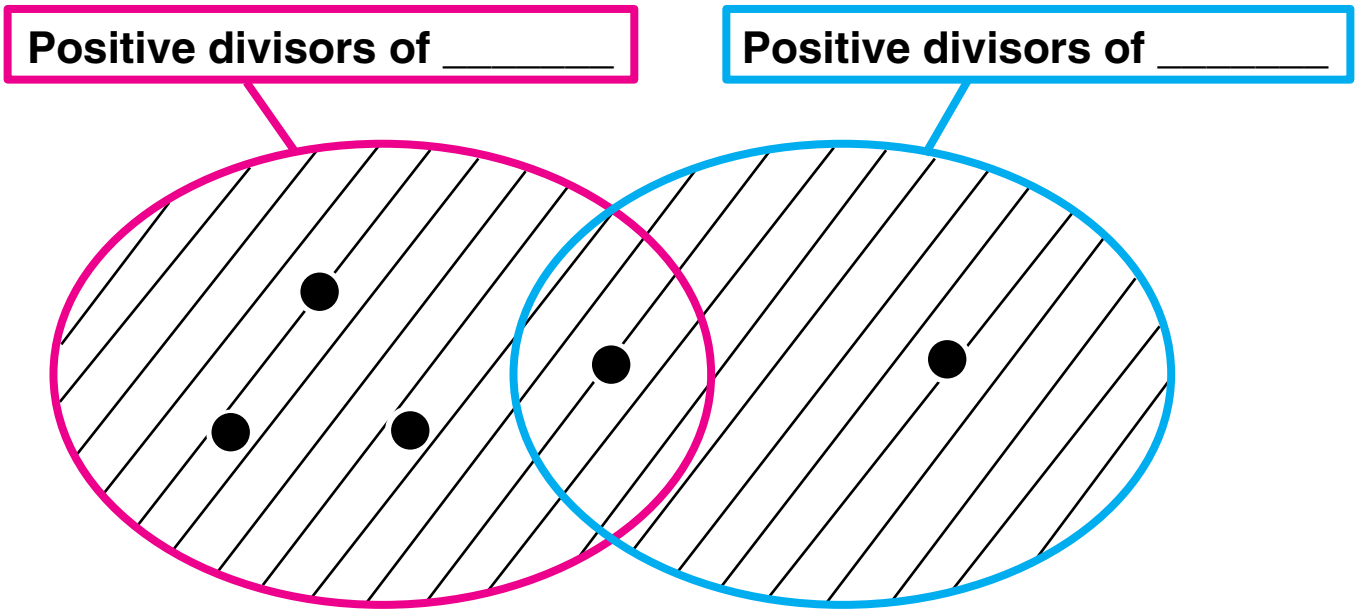
Clue 2

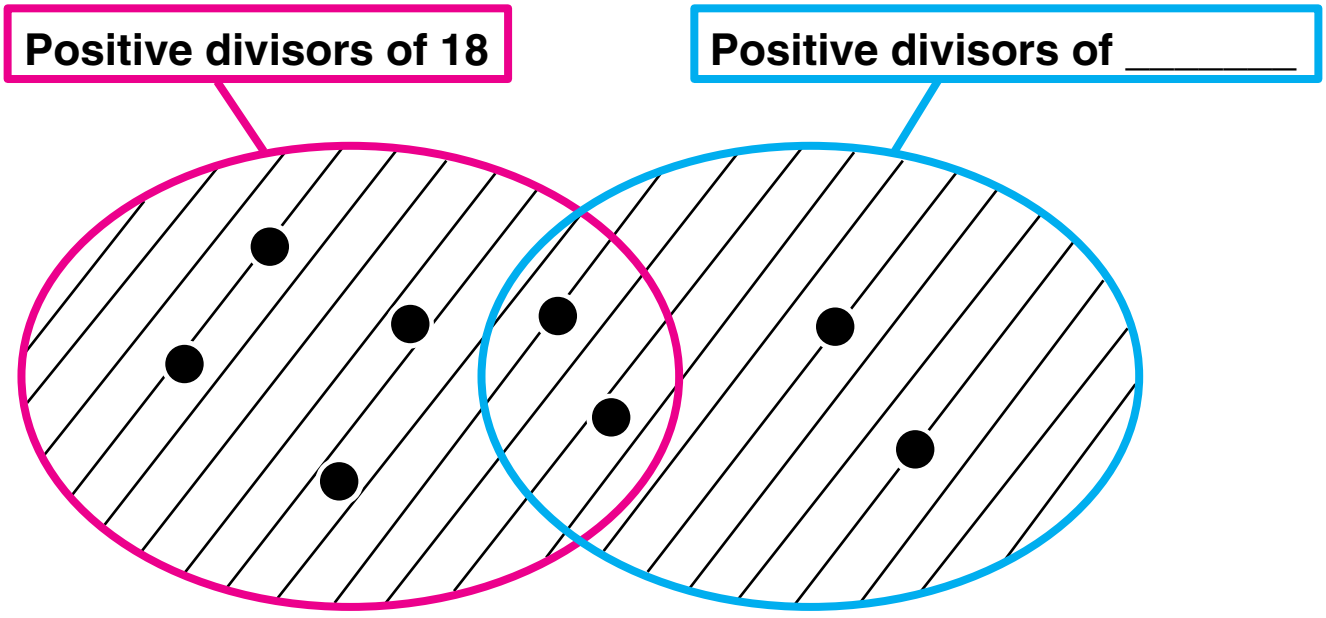
Shig can be put on this Minicomputer using exactly one of these checkers:



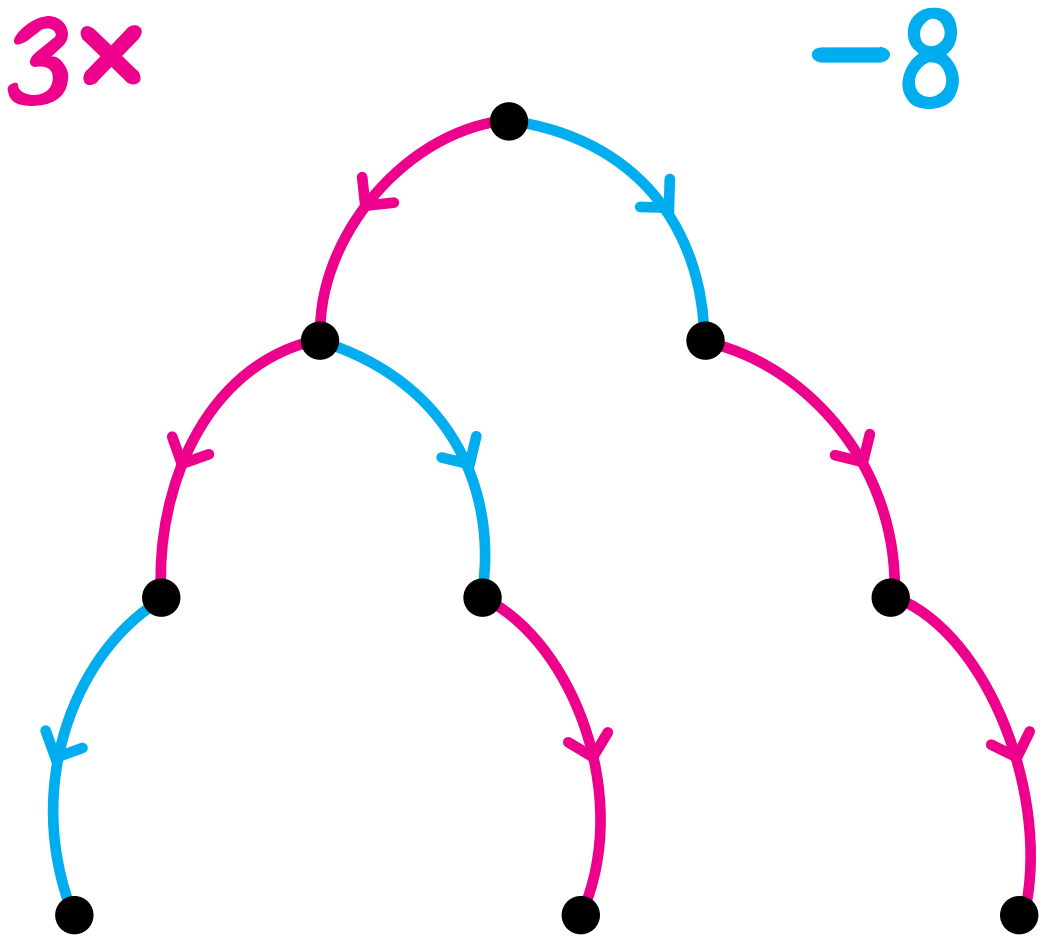
Who is Shig? _____

Fill in the blanks and label the dots. Many solutions are possible.





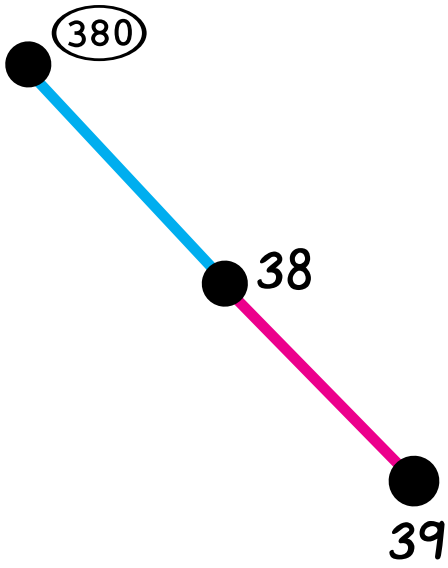
All of the numbers in this arrow picture are whole numbers and 153 is the greatest. Circle the dot for 153 and then label all of the dots.



Pantu is a secret whole number that is exactly two cords away from 39. Draw a cord picture to show all of the numbers that Pantu could be. One possibility is done for you. Remember that Pantu cannot be 39.

+1 or −1

10× or ÷10



Pantu could be 380, _____, _____, _____, _____, _____, _____, or _____.

72 48 $\widehat{24}$

22 42 $\widehat{20}$

Names for each of the above numbers can be written using each of these symbols exactly once.

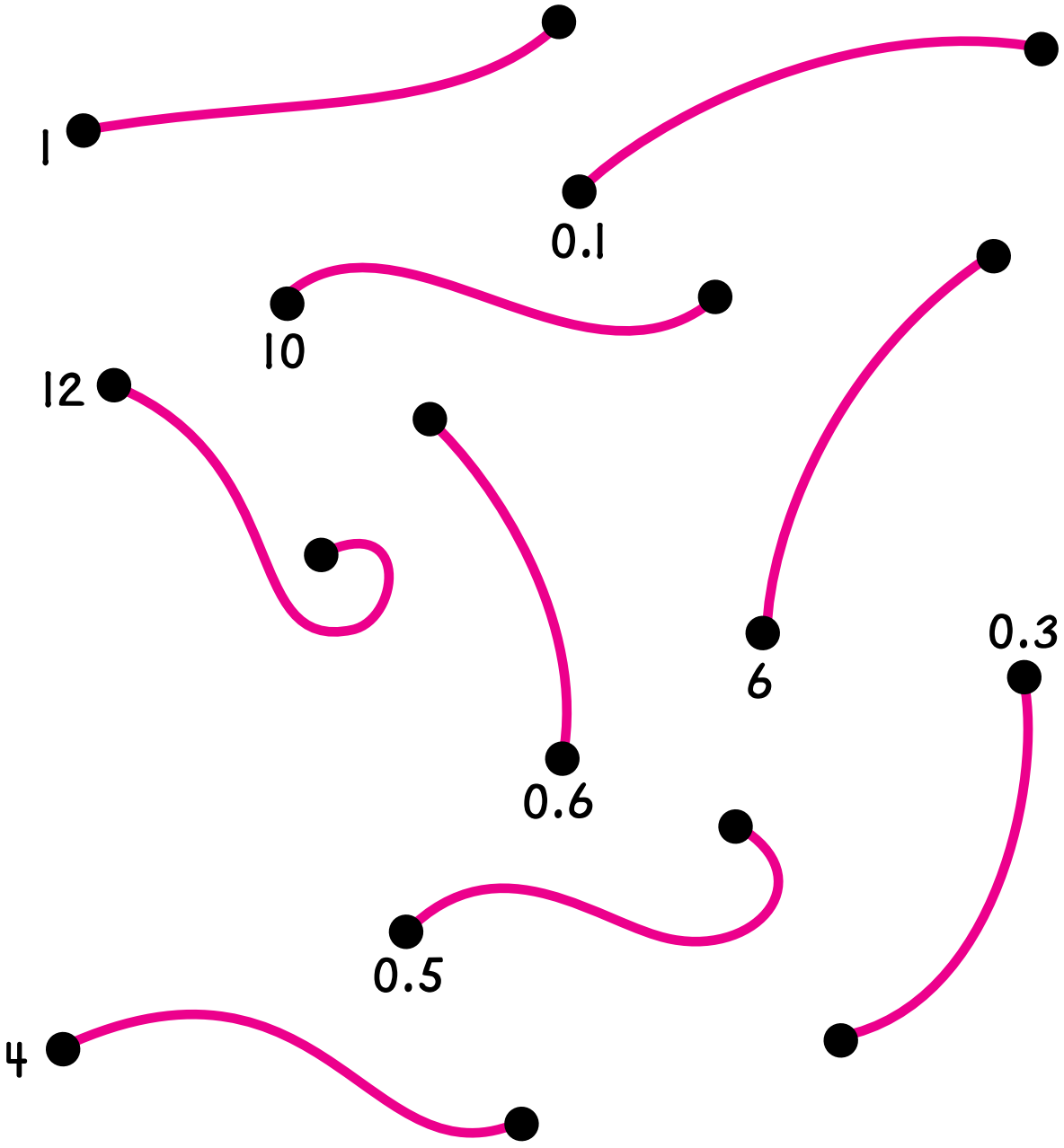
5 7 11 − × ( )

Example: $7 \times (11 - 5) = 42$

Write names for any four of the five other numbers.

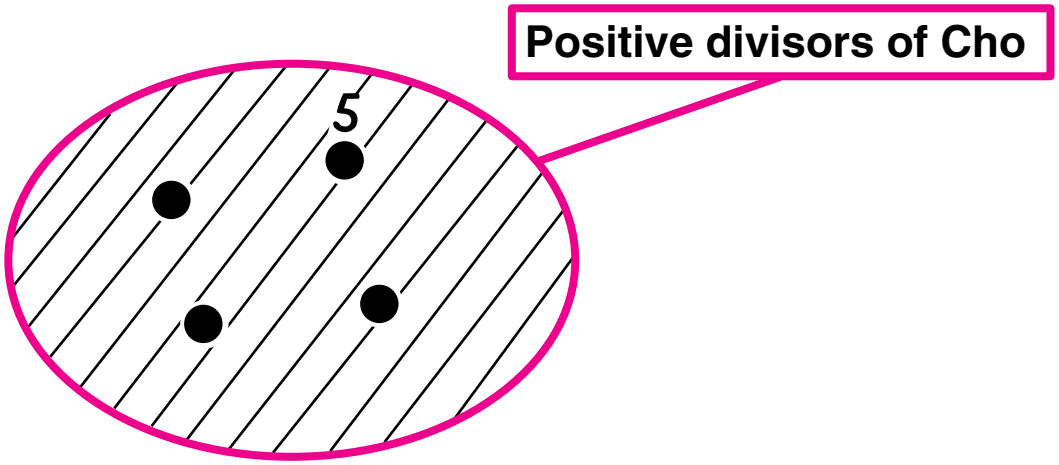
Two numbers are joined by a red cord
if and only if
their product is 18.

Label the dots.



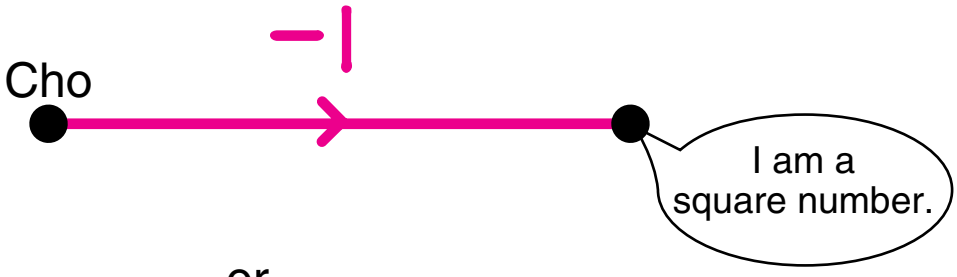
Cho is a secret whole number less than 100.

Clue 1



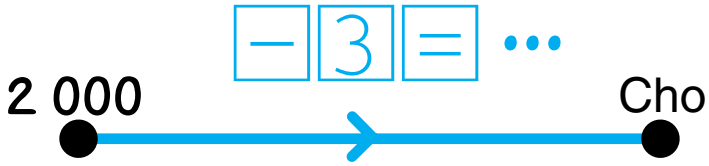
Cho could be _____, _____, _____, _____, _____, _____, or _____.

Clue 2



Cho could be _____ or _____.

Clue 3



Who is Cho? _____