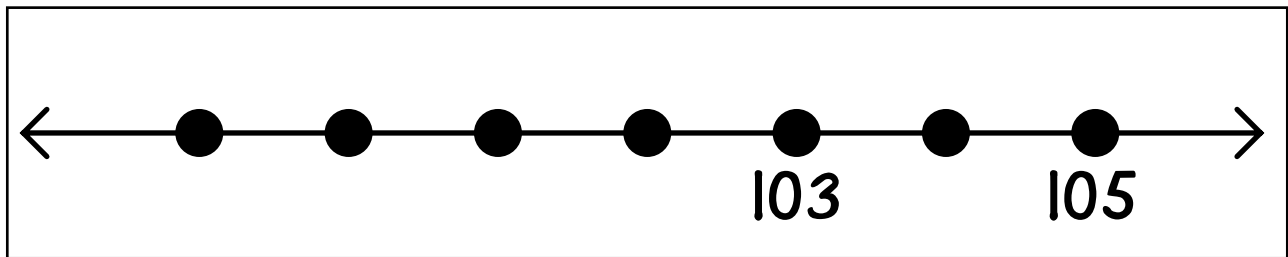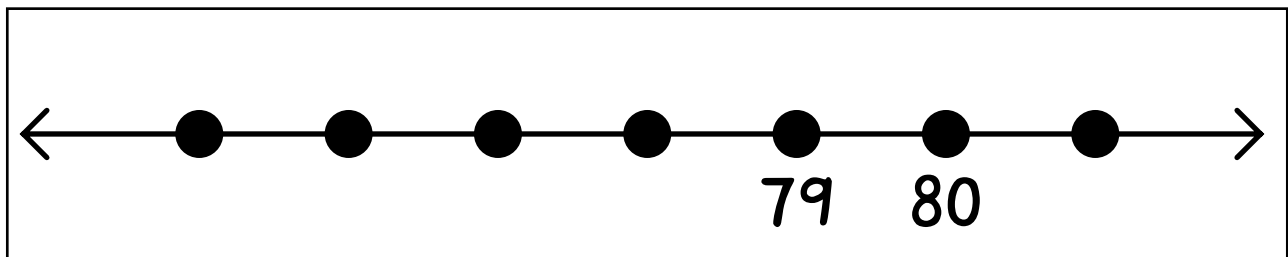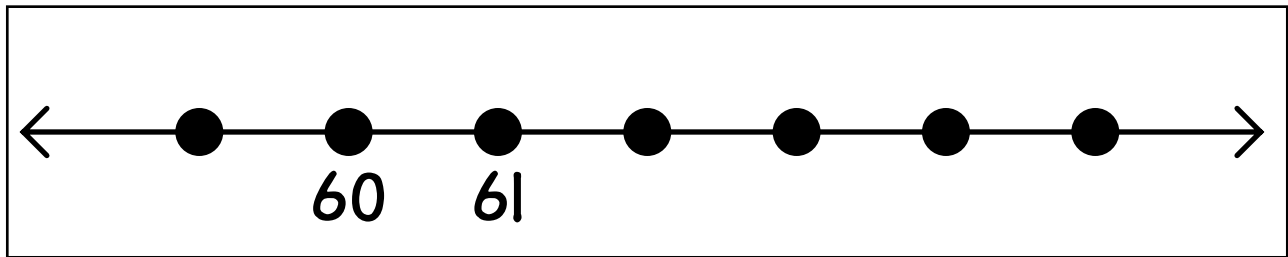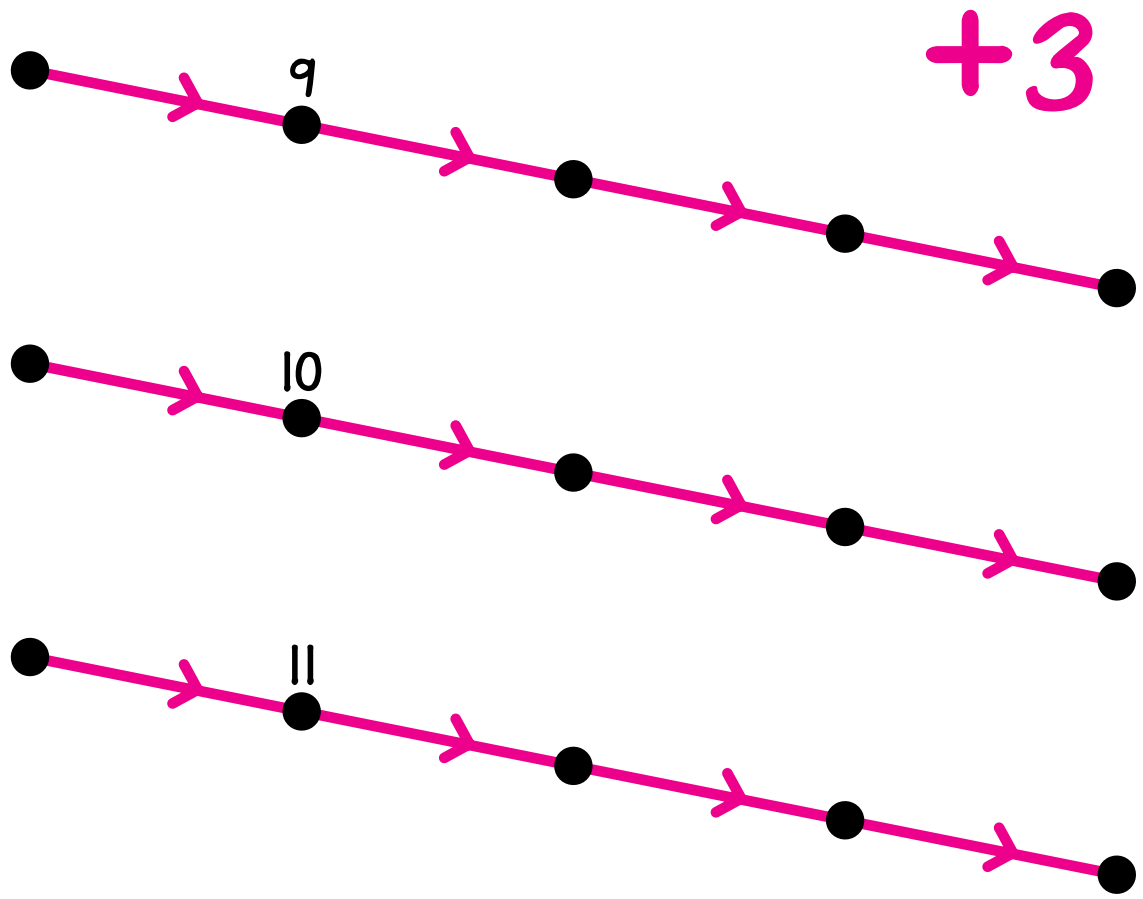# Festival
of
Problems #2

Label the dots on these number lines.
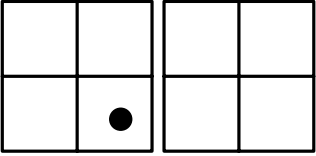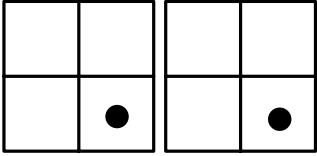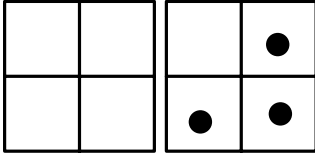
←———•———•———•———•———•———•———•———→
　　　　60　　61

←———•———•———•———•———•———•———•———→
　　　　　　　　　79　　80

←———•———•———•———•———•———•———•———→
　　　　　　　　103　　　　105

←———•———•———•———•———•———•———•———→
　　　　　　111　　　　113

Label the dots.

+3

Complete.

8 + 3	17 + 3	9 +4	7 +8	11 + 3	15 + 5

3 +6	3 +10	8 +5	9 +6	7 +7	6 +10

3

What number is on the Minicomputer?

Put the number on the Minicomputer.

58

70

96

91

43

26

Put at least ten numbers in this string picture.

Multiples of 3
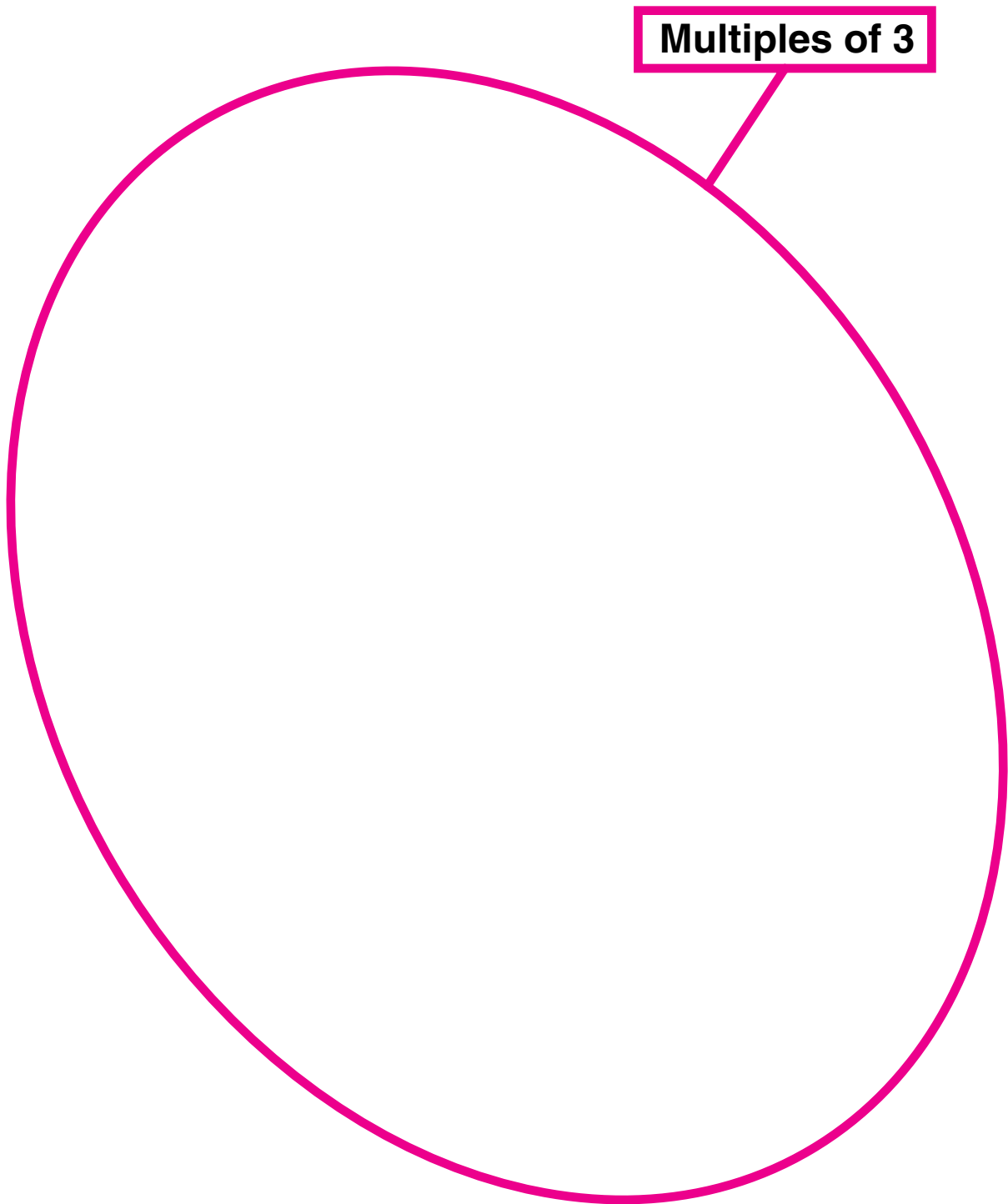
Each little square has area 2 cm².
Color a red shape with area 12 cm².
Color a blue shape with area 18 cm².

2 cm²
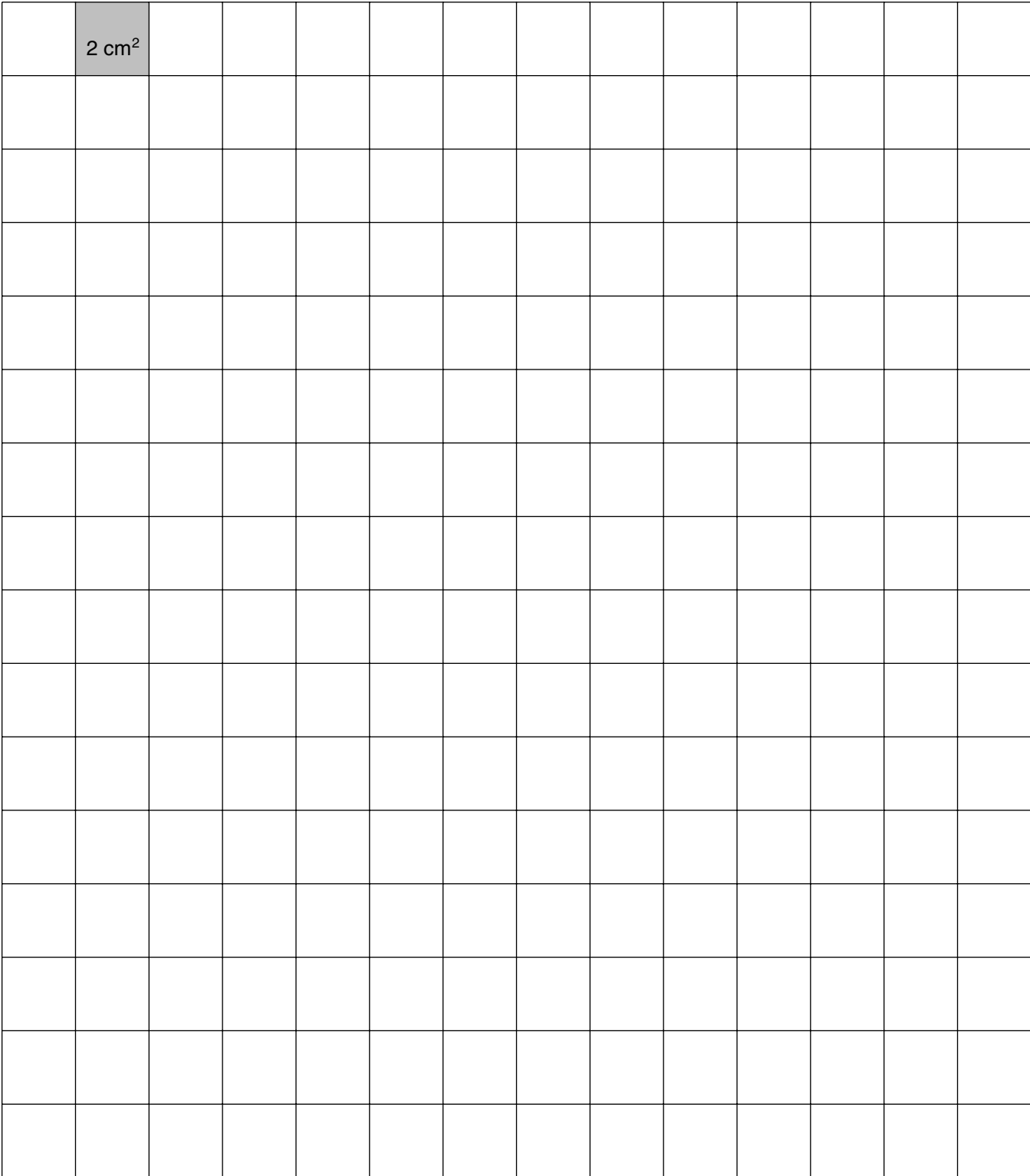
How much money?

_____ ¢

_____ ¢

_____ ¢

_____ ¢

_____ ¢

_____ ¢

Build an arrow road from 0 to 43 using +10 and +1 arrows.
Use as few arrows as possible.

+10

+1

43
●

●
0

How many +10 arrows? _____

How many +1 arrows? _____

Add.

$$52 + \widehat{2} = \underline{\hspace{2cm}}$$

$$52 + \widehat{50} = \underline{\hspace{2cm}}$$

$$60 + 33 = \underline{\hspace{2cm}}$$

$$\widehat{34} + \widehat{25} = \underline{\hspace{2cm}}$$

$$\widehat{75} + 25 = \underline{\hspace{2cm}}$$

$$108 + 42 = \underline{\hspace{2cm}}$$

$$139 + \widehat{30} = \underline{\hspace{2cm}}$$

Write number sentences for 37. Two examples are given.

$18 + 19 = 37$ $40 - 3 = 37$

_____   _____

37

_____   _____

_____   _____

Label the dots.

2×

11

6

8

5
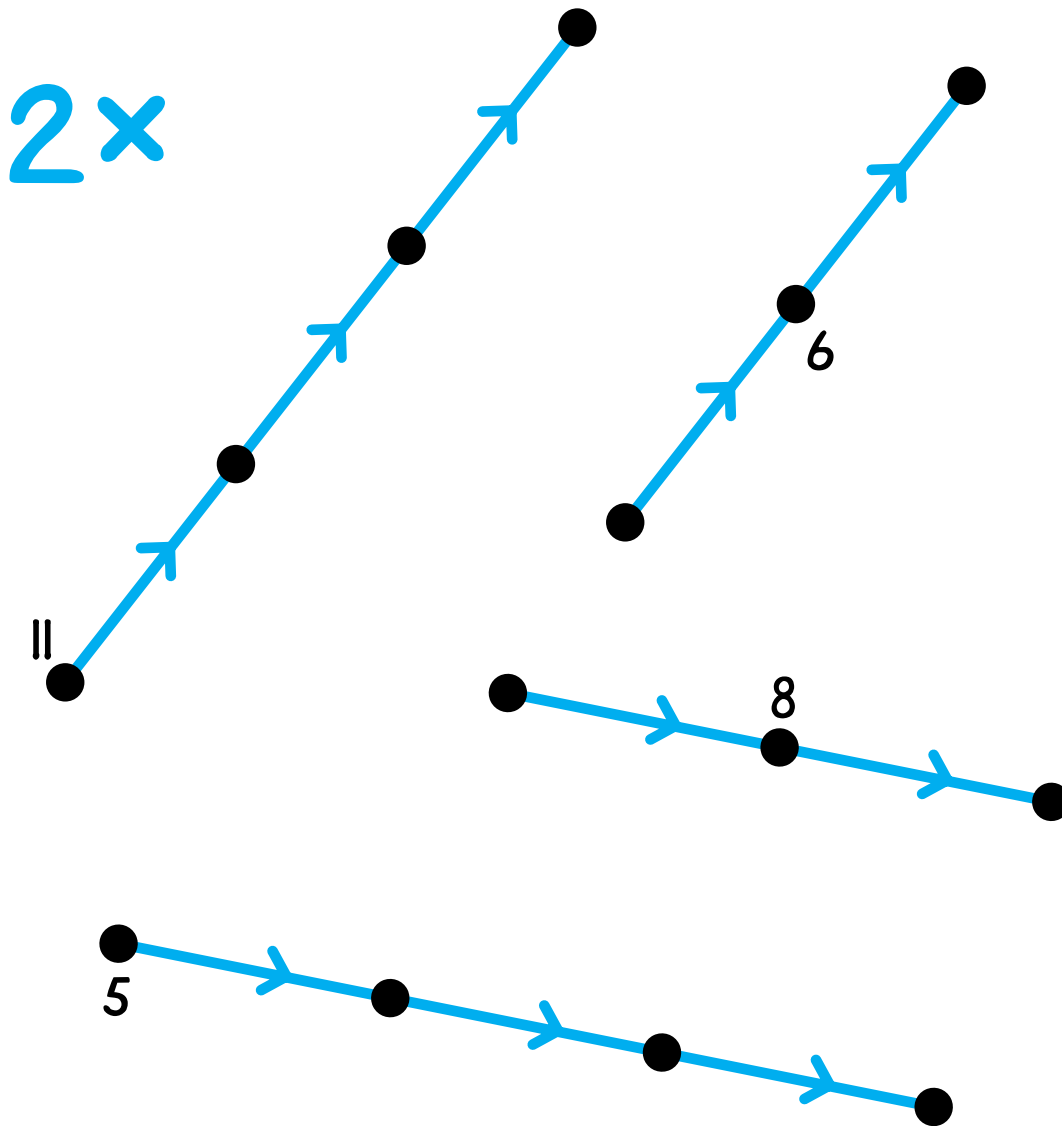
Complete.

2 × 3 = ___   2 × 7 = ___   2 × 50 = ___

2 × 13 = ___   2 × 15 = ___   2 × 51 = ___

2 × 33 = ___   2 × 12 = ___   2 × 54 = ___

Label the dots in this string picture.
Many solutions are possible.

Even numbers

Multiples of 5
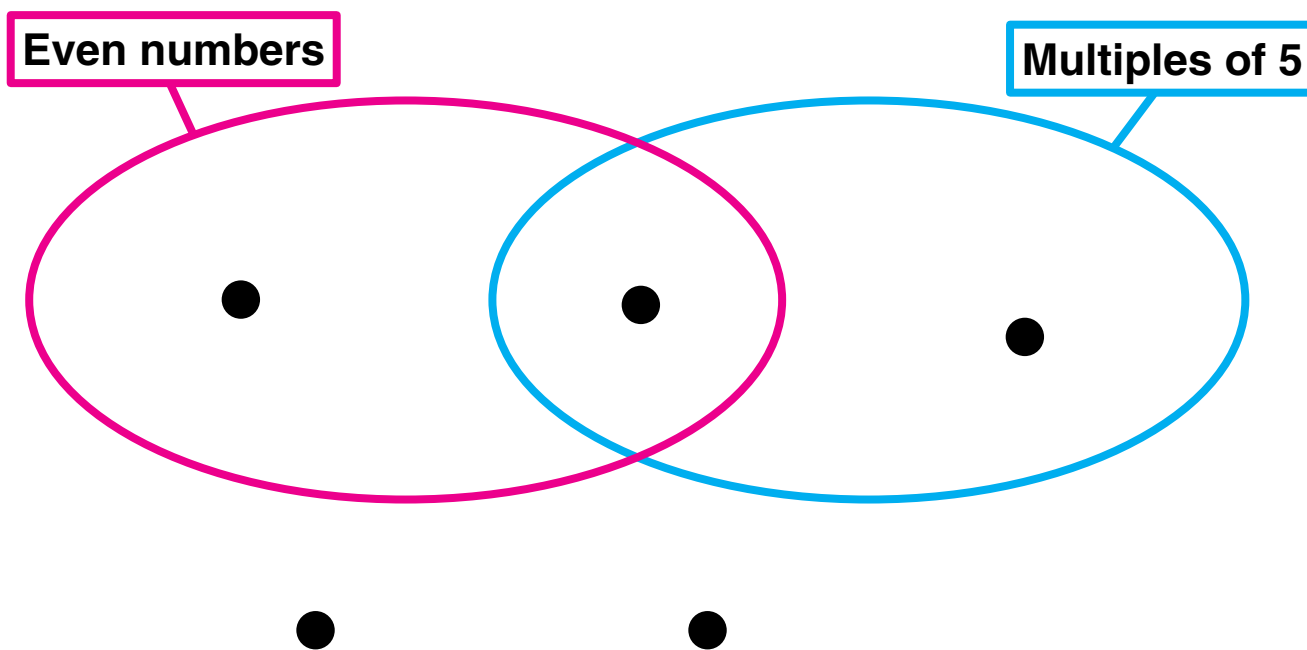
Build an arrow road from 5 to 81 using +10 and +1 arrows.

5

●

+10

+1

●

81

Color one-half of each shape red.

Complete.

$\frac{1}{2} \times 40 =$ _____

$40 \div 2 =$ _____

$\frac{1}{2} \times 20 =$ _____

$20 \div 2 =$ _____
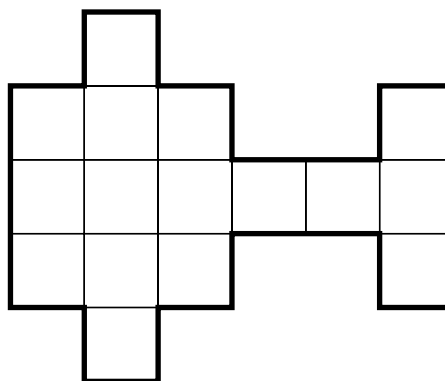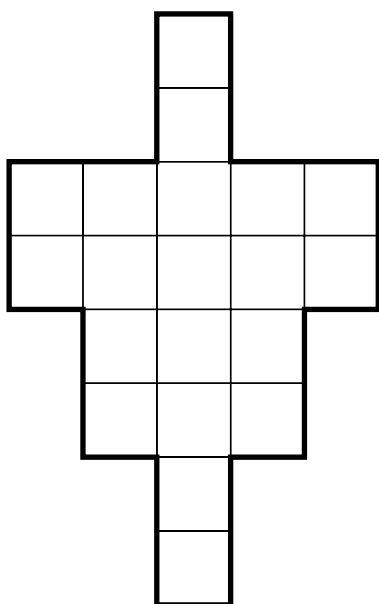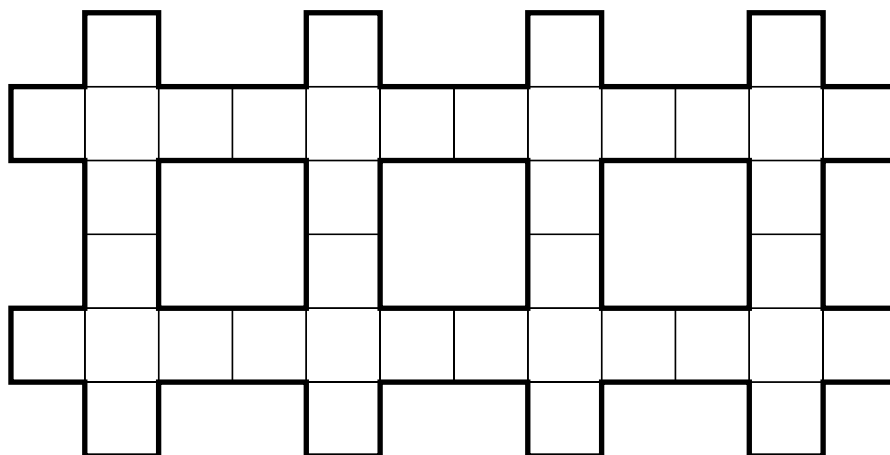
$\frac{1}{2} \times 16 =$ _____

$16 \div 2 =$ _____

Seven is in each of these arrow pictures.
Label all the dots. In each picture, circle the dot for 7.
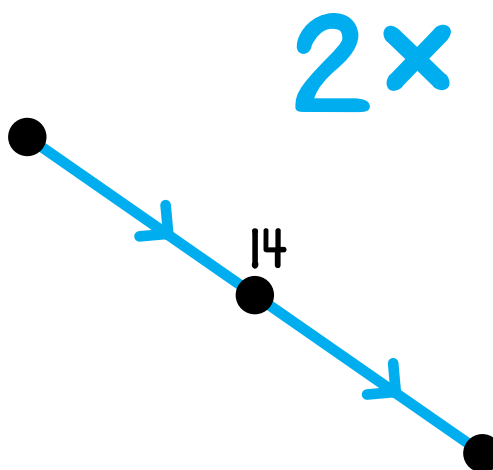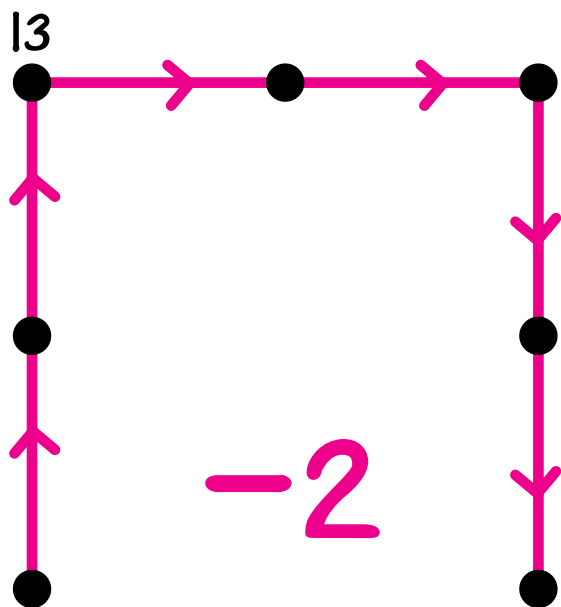
13

−2

2×

14

I am less than you

10

27

+10

Write the length of each zigzag path in the box of the same color.

2 cm

cm

cm

cm
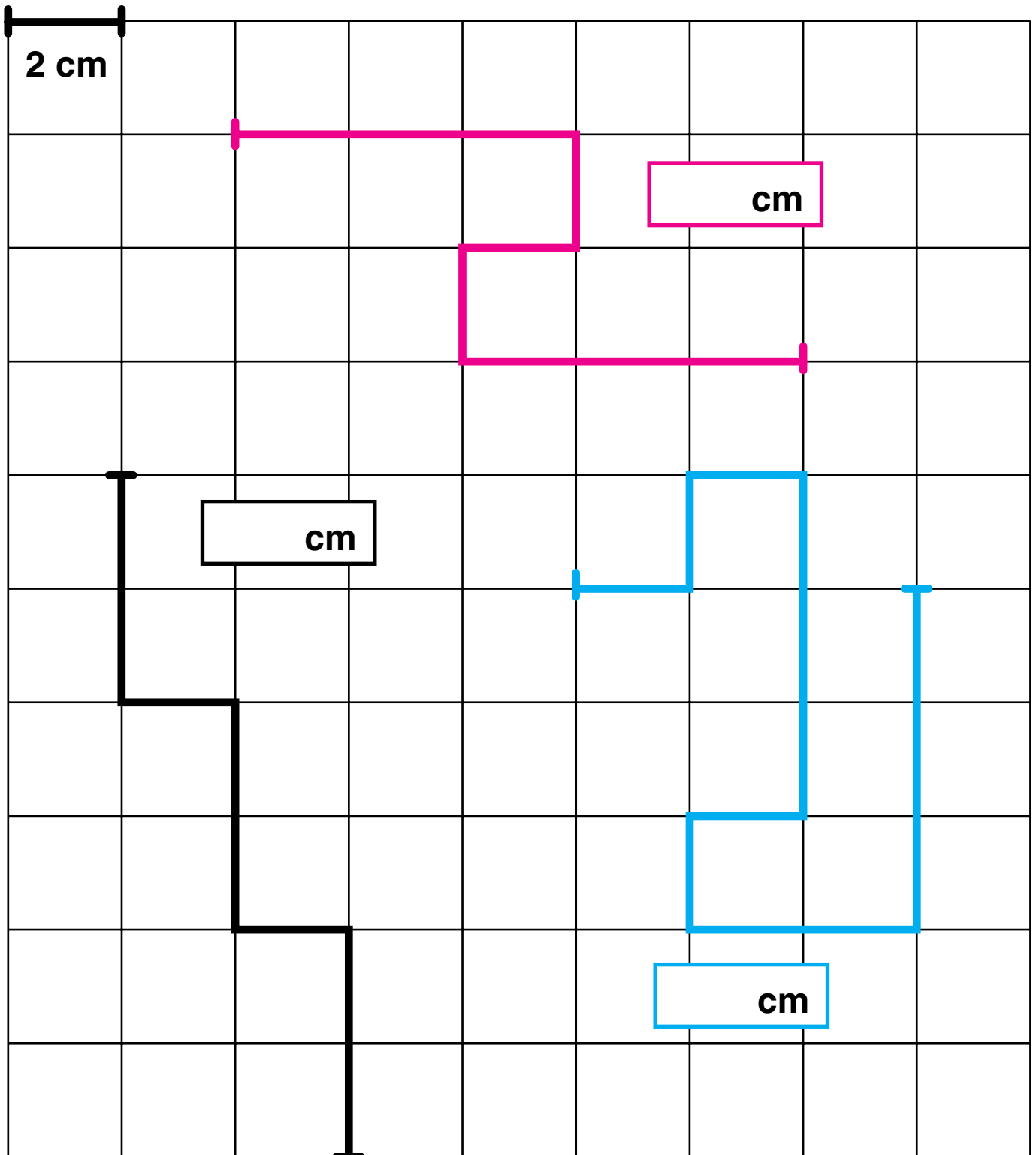
Match each dot with an A-block. One is done for you.

Little

Not △

Label the dots on these number lines.

⟵————●————●————●————●————●————●————●————⟶
          ⌢Î   0

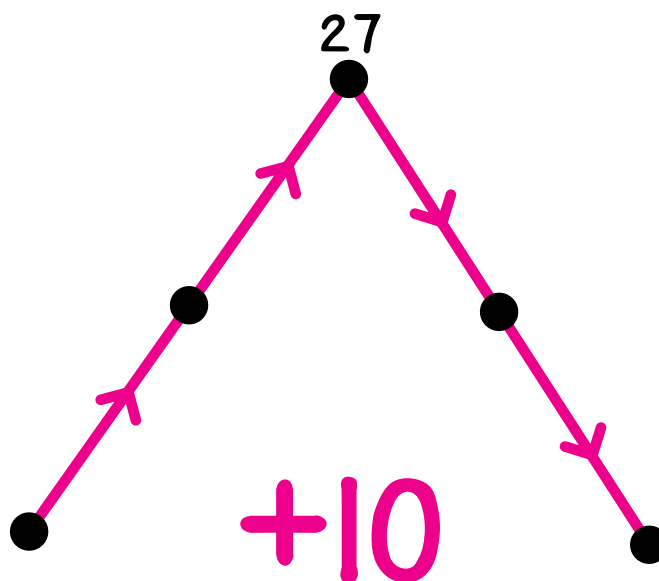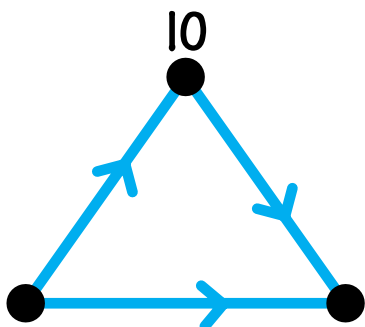⟵————●————●————●————●————●————●————●————⟶
      ⌢Î0   ⌢9

⟵————●————●————●————●————●————●————●————⟶
                          ⌢7   ⌢6

⟵————●————●————●————●————●————●————●————⟶
              ⌢20   ⌢Î7
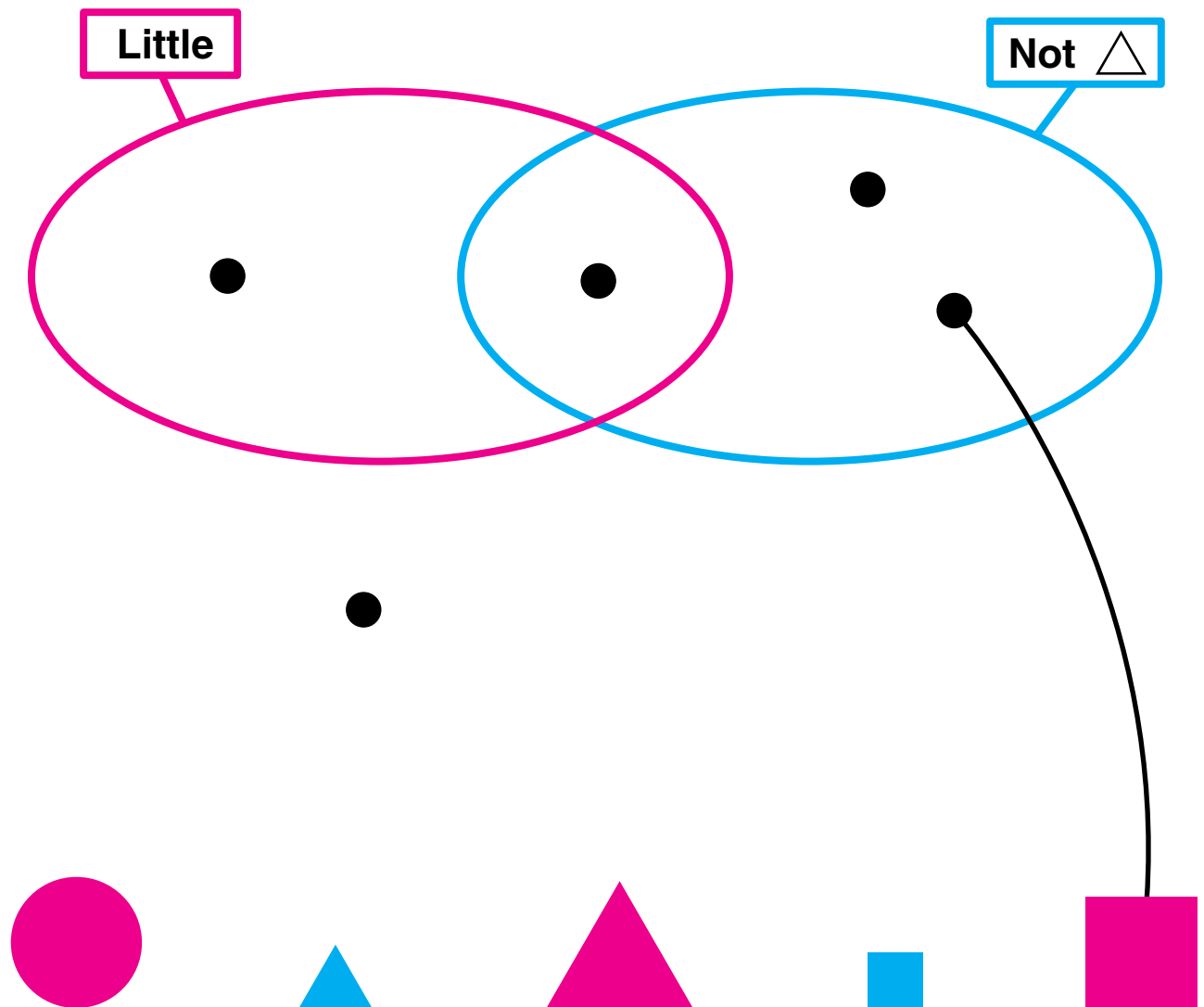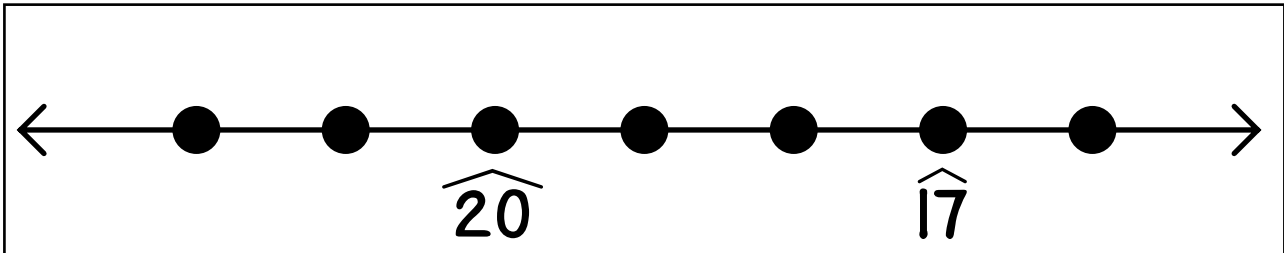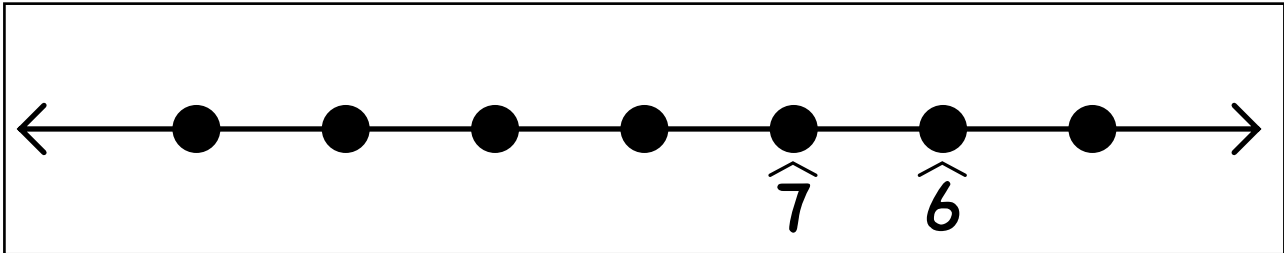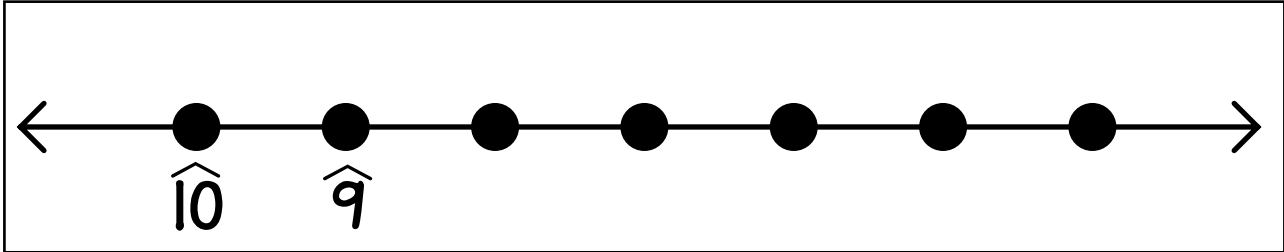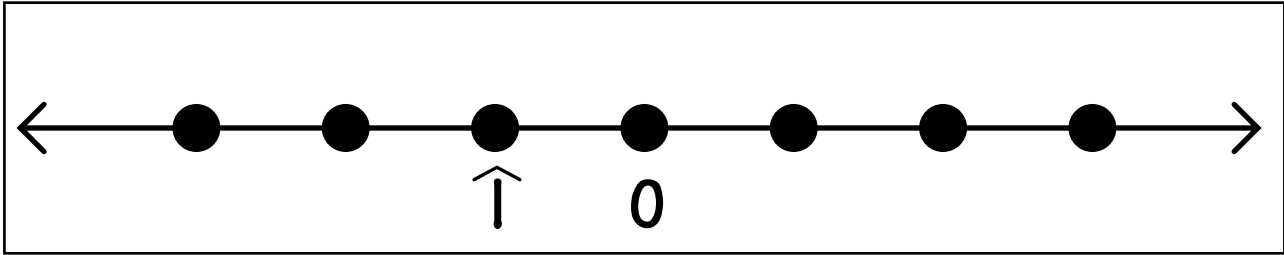
Fill in the box for the gray arrow.

$$-10 \qquad -2$$

$$- \boxed{}$$
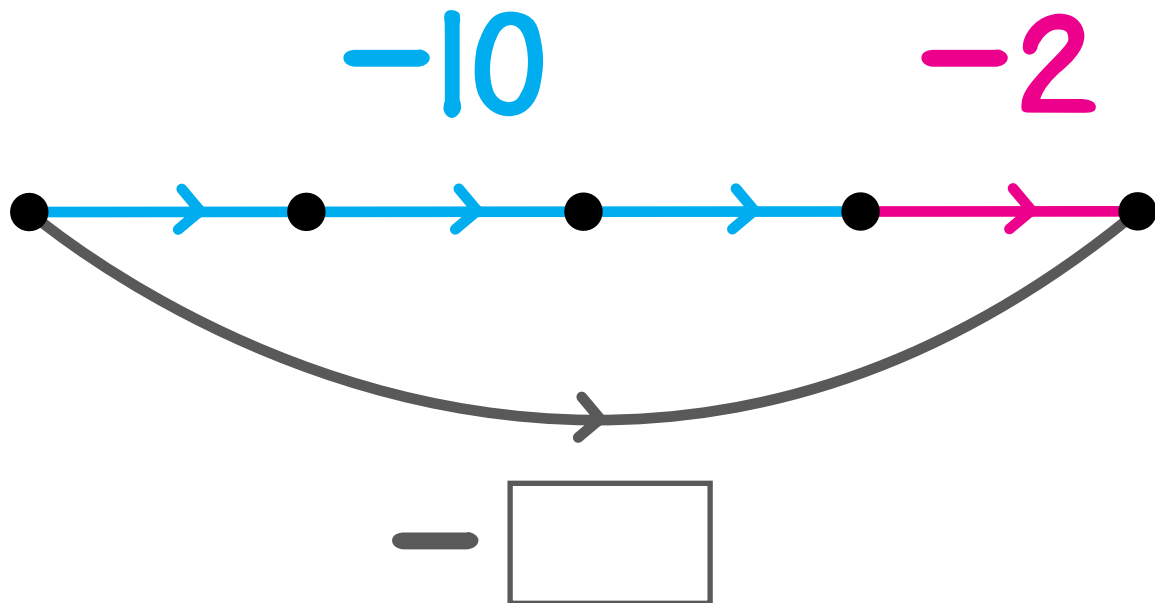
Use the arrow picture for these subtraction problems.

$$
\begin{array}{r} 86 \\ -32 \\ \hline \end{array}
\qquad
\begin{array}{r} 52 \\ -32 \\ \hline \end{array}
\qquad
\begin{array}{r} 65 \\ -32 \\ \hline \end{array}
\qquad
\begin{array}{r} 40 \\ -32 \\ \hline \end{array}
$$

$$
\begin{array}{r} 71 \\ -32 \\ \hline \end{array}
\qquad
\begin{array}{r} 102 \\ -32 \\ \hline \end{array}
\qquad
\begin{array}{r} 90 \\ -32 \\ \hline \end{array}
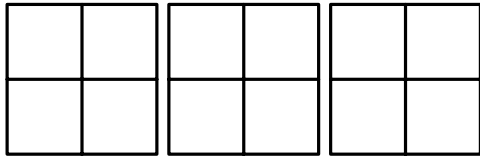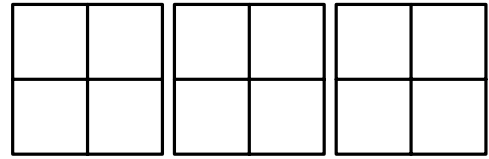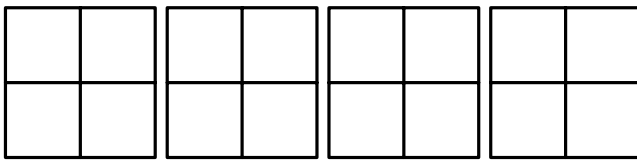\qquad
\begin{array}{r} 110 \\ -32 \\ \hline \end{array}
$$

Put these numbers on the Minicomputer.

579

850

3,026
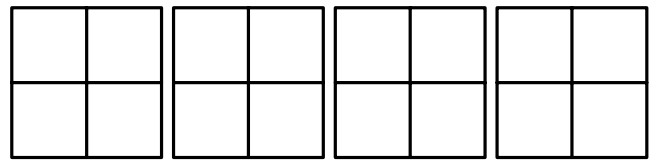
4,108

What number is on the Minicomputer?

_____

_____

_____

_____

_____

_____

Label the dots.

2×   +3
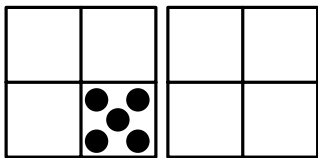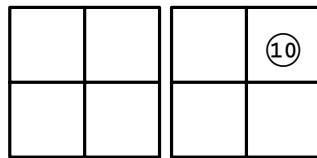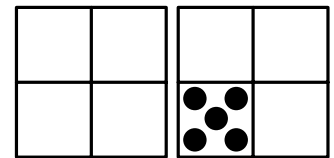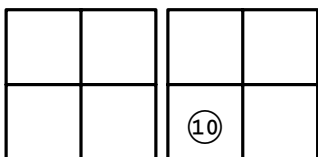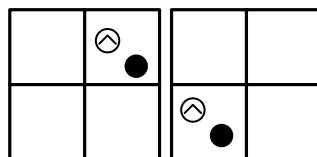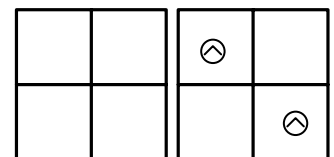
I3
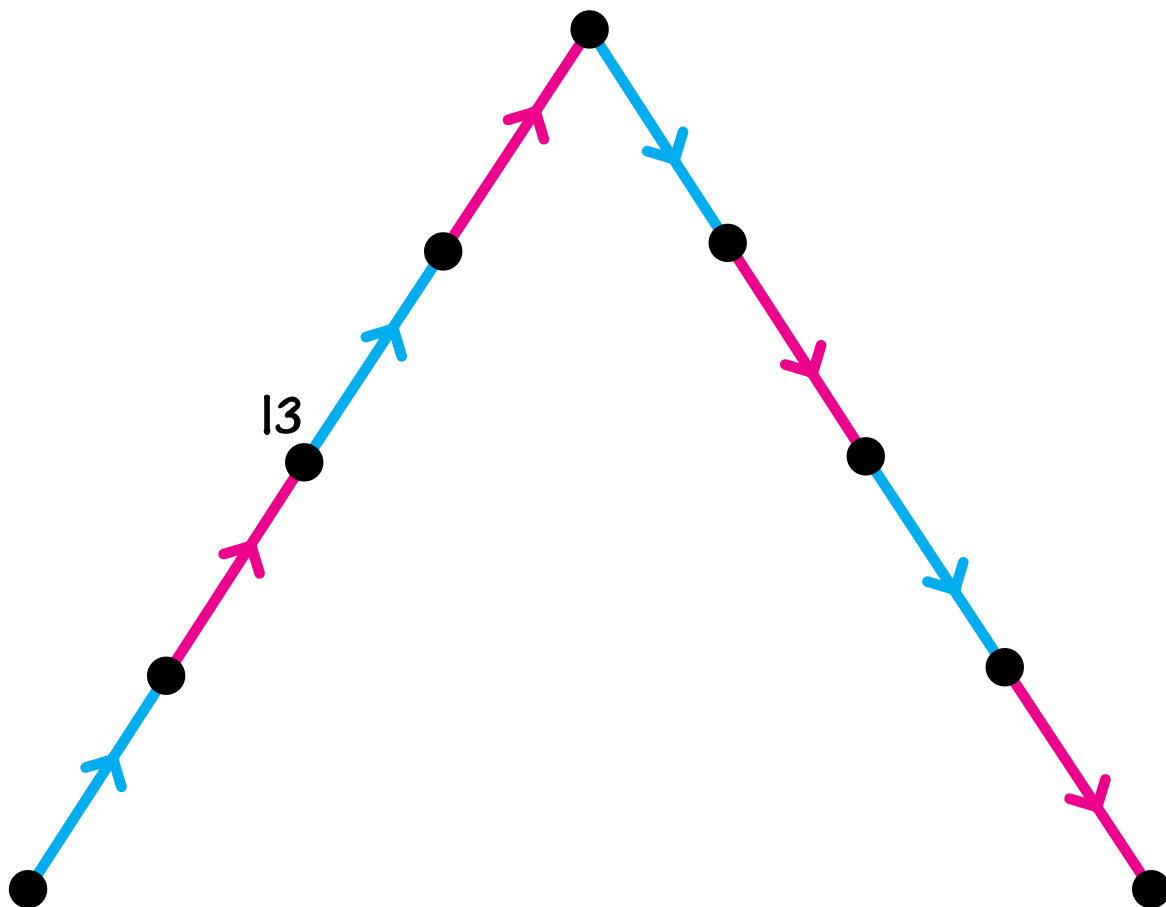
Color one-third of each shape blue.
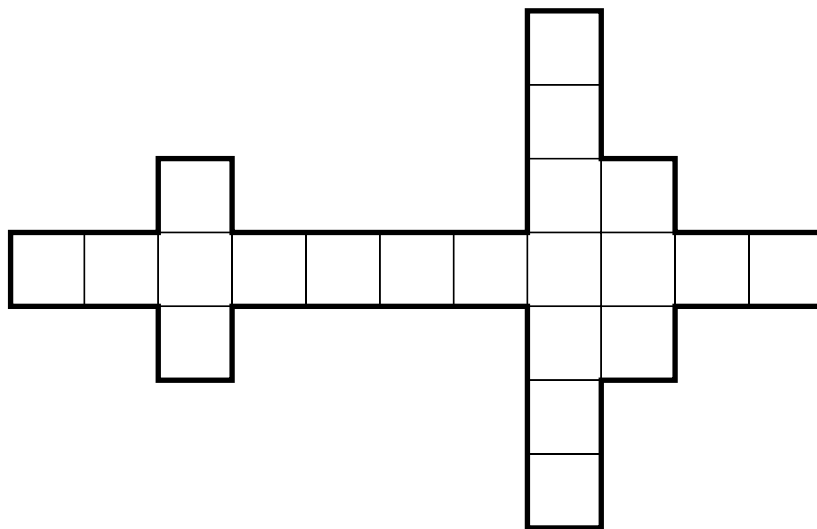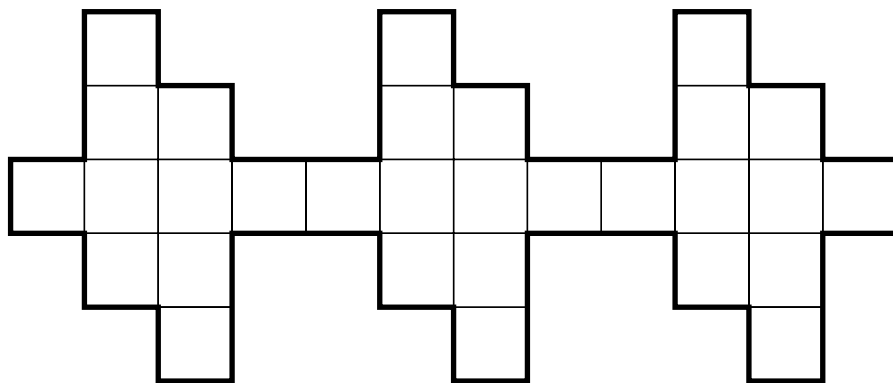
Complete.

$\frac{1}{3}$ × 30 = _____

30 ÷ 3 = _____

$\frac{1}{3}$ × 2I = _____

2I ÷ 3 = _____

Pat is a secret number.
Pat is in this arrow picture and in this string picture.
Who is Pat? _____

+5   −3

Less than 15   Even numbers

● Pat

Write the length of each zigzag path in the box of the same color.

4 cm

cm

cm

cm
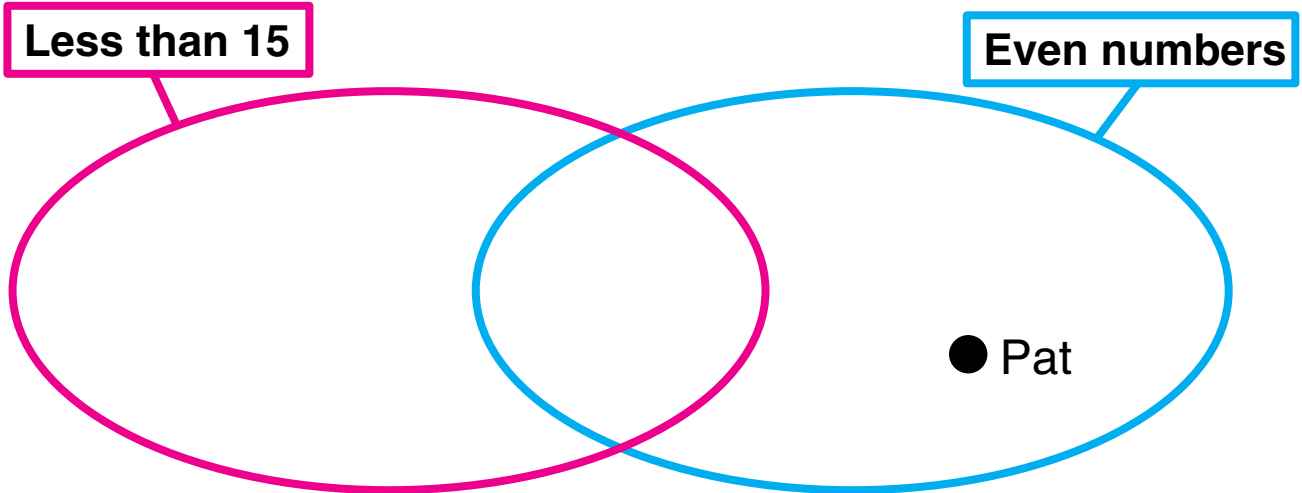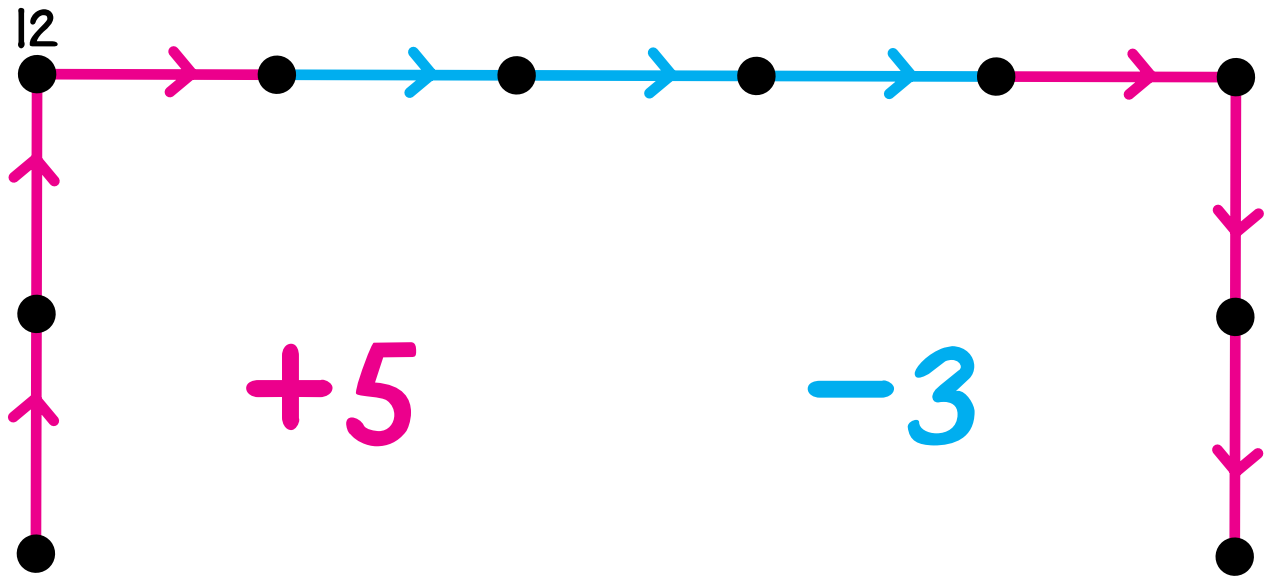
Pam is a secret number.
Pam is a multiple of 5 and in this arrow picture.
Who is Pam? _____

+4

×2

6
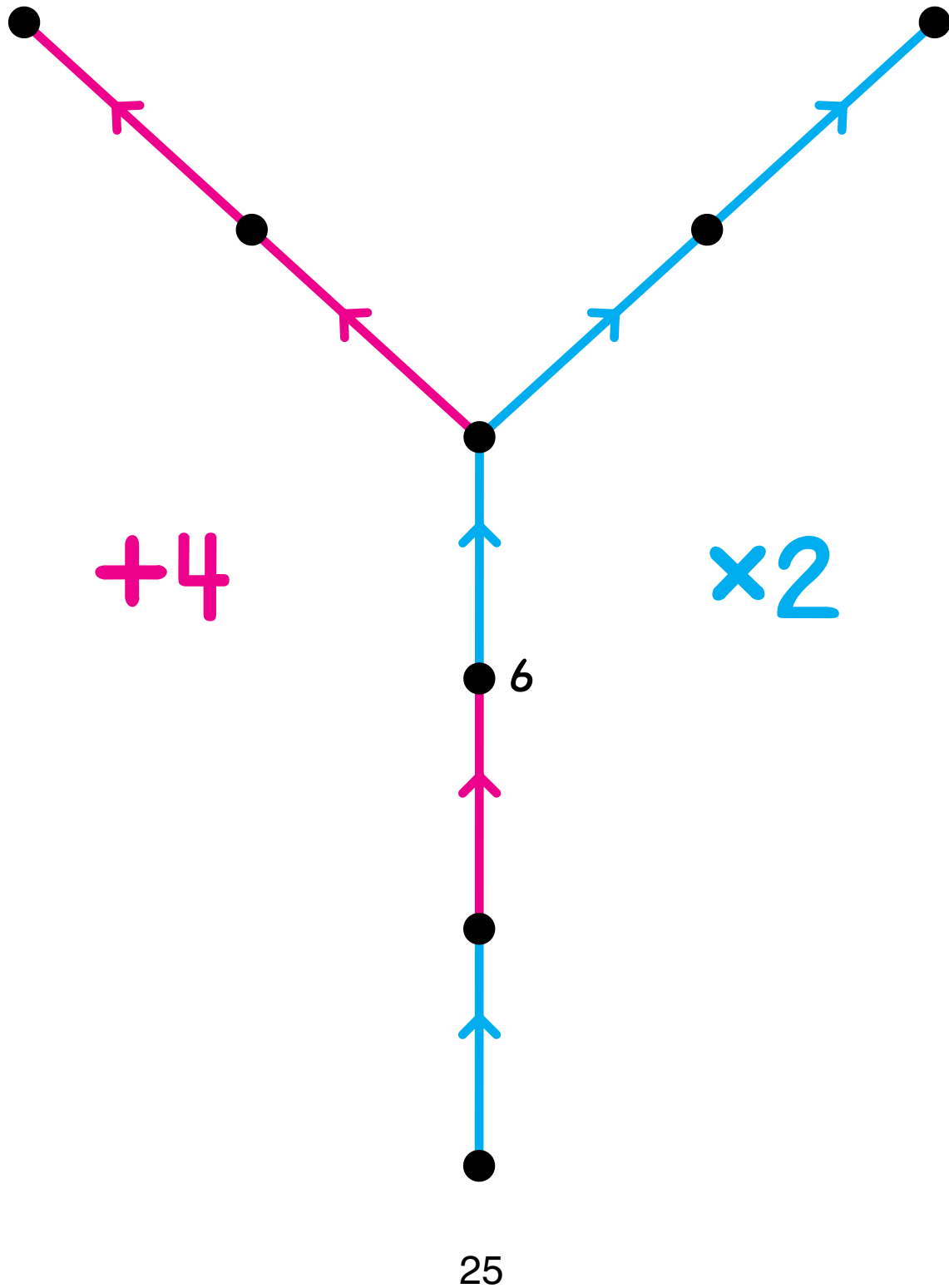
These are the prices of some items in a grocery store.

$0.65
●
Soup

$0.75
●
Bread

$0.79
●
Flour

$0.40
●
Eggs

$1.21
●
Milk
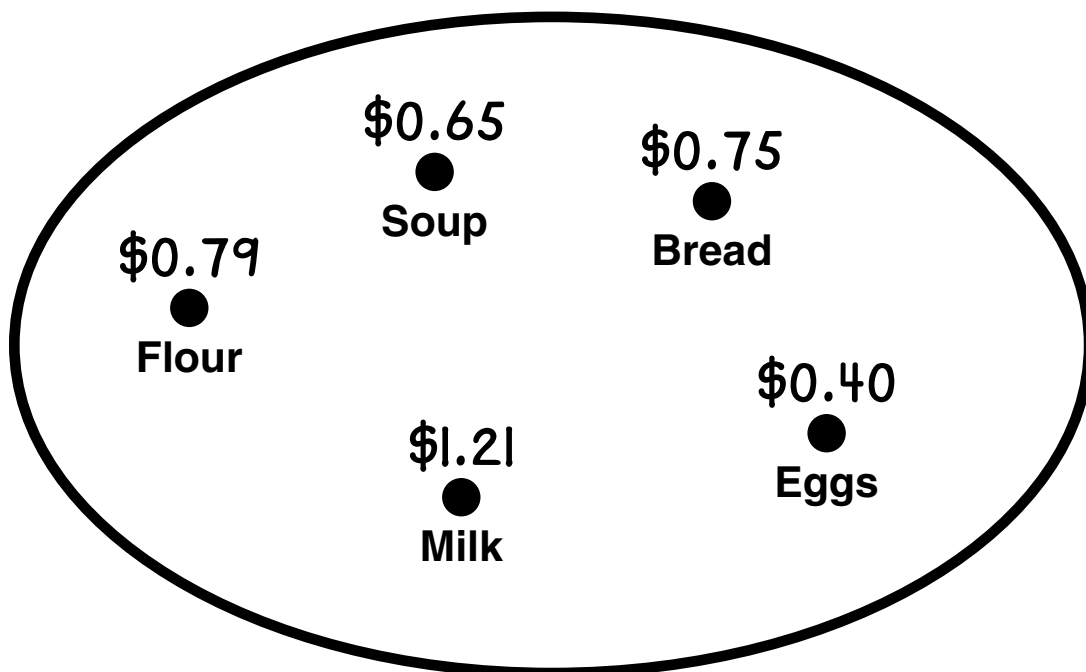
Which item is the most expensive? _____
Which item is the least expensive? _____

Kalah bought two items for exactly $2.00.
Which two items did he buy? _____ and _____.

Sun-Li bought soup and bread. How much did she
spend? _____
She gave the clerk $2.00. How much change did she
receive? _____

Label the dots.
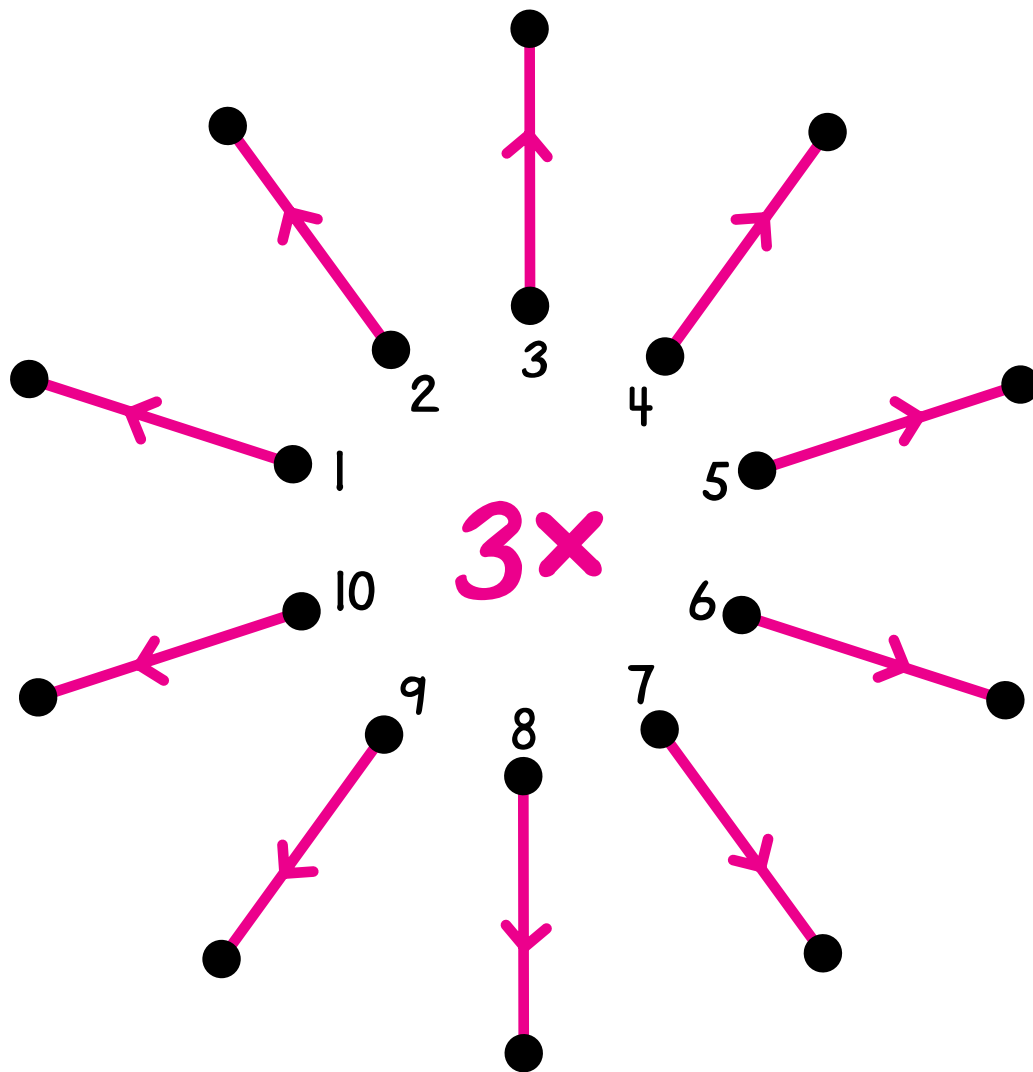
Complete.

3 × 2 = _____   3 × 4 = _____   3 × 9 = _____

3 × 5 = _____   3 × 7 = _____   3 × 6 = _____

3 × 10 = _____   3 × 8 = _____   3 × 3 = _____

Complete.

$$\begin{array}{r} 48 \\ + \\ \hline 92 \end{array}$$

$$\begin{array}{r} 175 \\ + \\ \hline 190 \end{array}$$

$$\begin{array}{r} 2{,}371 \\ + \\ \hline 5{,}928 \end{array}$$

$$\begin{array}{r} 4{,}351 \\ + \\ \hline 5{,}000 \end{array}$$

Ten is the least number in this arrow picture. Where is 10?
What are the other numbers? Label the dots.

−3   −5
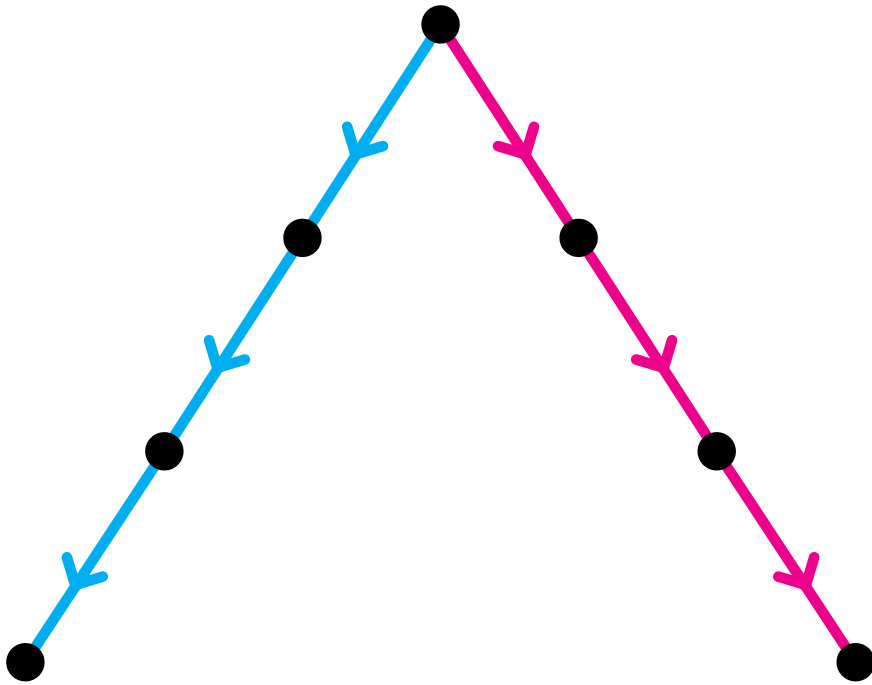
One Treat Bag

12 peanuts
4 candy kisses
8 pretzels
15 raisins

How much of each ingredient do you need to make:

Two Treat Bags
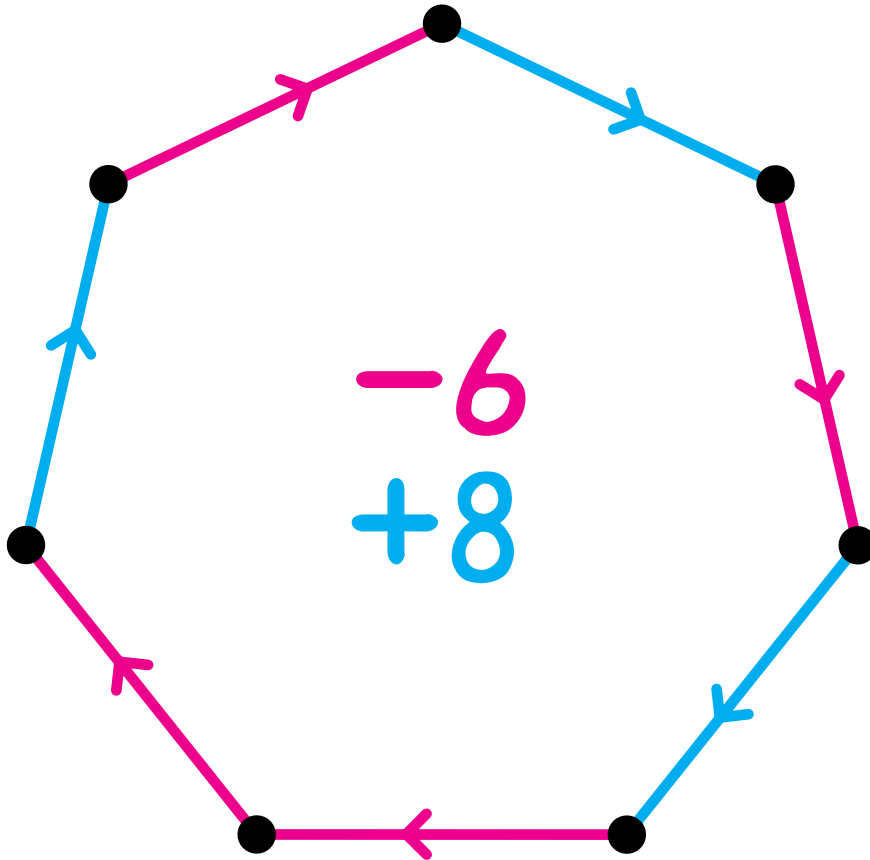
_____ peanuts
_____ candy kisses
_____ pretzels
_____ raisins

Five Treat Bags

_____ peanuts
_____ candy kisses
_____ pretzels
_____ raisins

Ten Treat Bags

_____ peanuts
_____ candy kisses
_____ pretzels
_____ raisins

Fifty is the greatest number in the arrow picture. Where is 50? What are the other numbers? Label the dots.

-6

$+8$

Put these numbers in the string picture.

55   56   57   58   59   60   61   62   63   64   65

One is done for you.

Multiples of 5

Multiples of 4

60
●

Multiples of 3