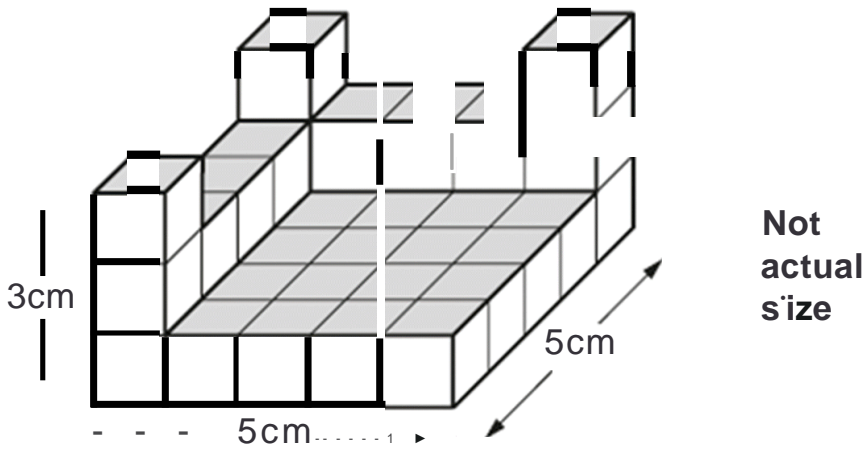


Day 6 - Reasoning

- 1** This shape is made of wooden centimetre cubes.



How many **more** centimetre cubes are needed to make it into a solid cuboid 3 cm tall, 5 cm long and 5 cm wide?

- 2 On Saturday Lara read $\frac{2}{5}$ of her book.

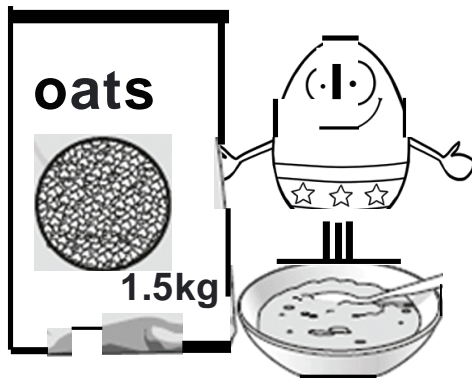


On Sunday she read the **other** 90 pages to finish the book.

How many pages are there in Lara,s book?

Diagram illustrating a 10x10 grid structure. The grid is composed of 10 columns and 10 rows. A label "Show your method" is positioned to the left of the grid, spanning the first four rows. The grid contains two blue vertical bars in the bottom row, one in the 8th column and one in the 9th column.

3



Every day Maria uses 50 g of oats to make porridge.

How many days does the packet of oats last?

[illegible]

$$65 \times 3 = 195$$

Explain how she can **use this information** to find the answer to this multiplication:

165 x 3

Day 7 - Arithmetic

1

(35 x 9) + (15 x 9) =

1 mark

2

9,000,800 - 7,999,990 =

1 mark

3

7 6 0 9

x

4 4

Show your method

2 marks

4

A 10x10 grid is shown. A 4x2 rectangle is highlighted in the bottom right corner, spanning from the 7th row to the 10th row and from the 8th column to the 10th column.

5

$$3500 \times 440 =$$

A 10x10 grid of squares. The bottom-right corner contains a 3x3 white square, which is outlined by a thick black border. The rest of the grid consists of squares with thin black borders.

6

4 3 1 6 2 9 7

A 10x10 grid is shown. The top row contains the numbers 4, 3, 1, 6, 2, 9, 7 in the first seven columns. The eighth column is empty. The bottom right corner of the grid contains a large empty box, spanning from the 7th column to the 9th column and from the 8th row to the 10th row.

2 marks

Day 7 - Reasoning

1 The area of a rugby pitch is 6,108 square metres.

A football pitch measures 112 metres long and 82 metres wide.

How much larger is the area of the football pitch than the area of the rugby pitch?

Show
your
method

1

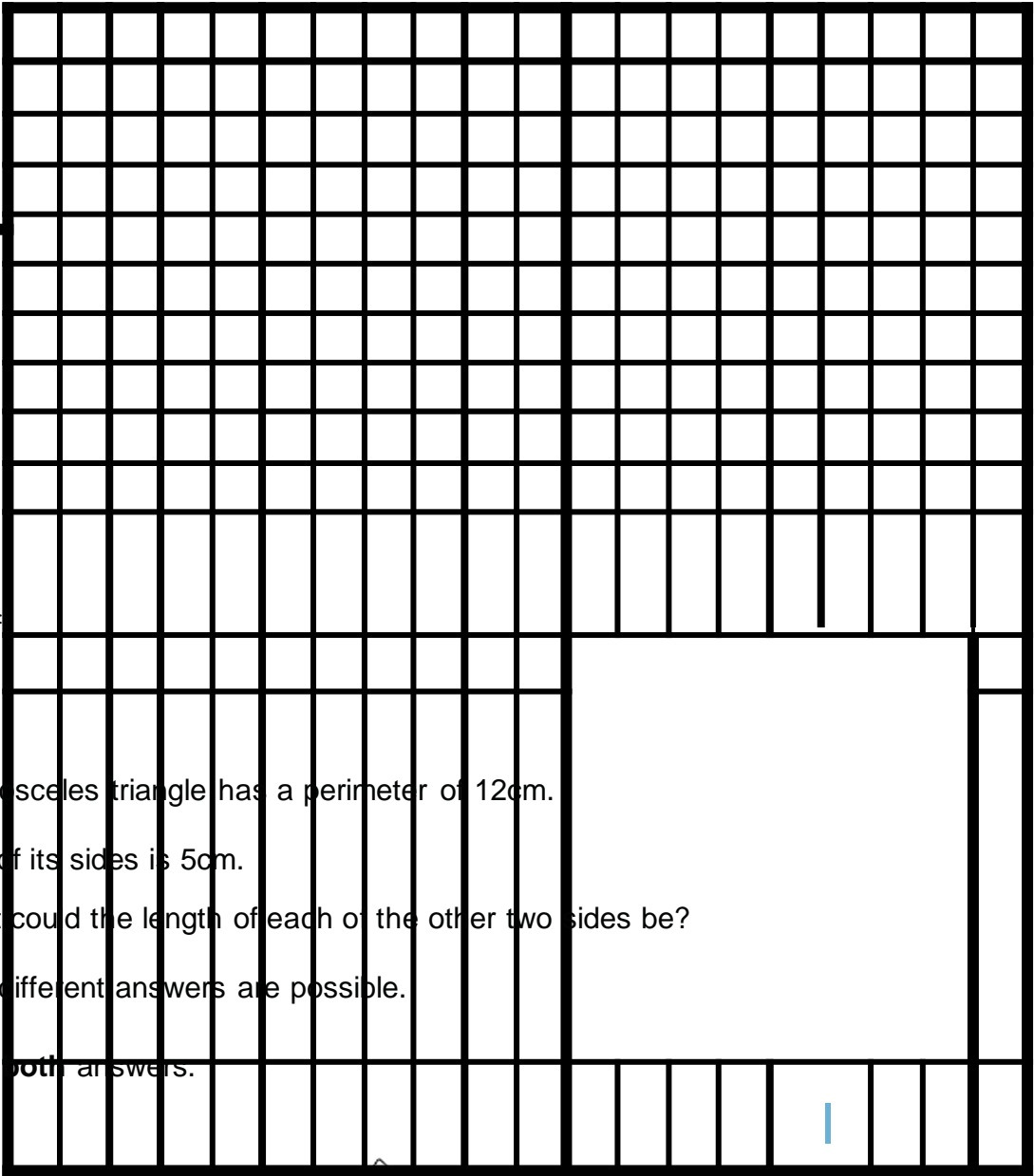
2 An isosceles triangle has a perimeter of 12cm.

One of its sides is 5cm.

What could the length of each of the other two sides be?

Two different answers are possible.

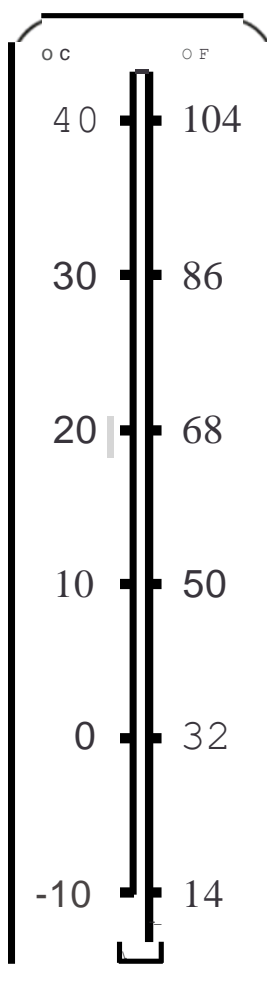
Give both answers.



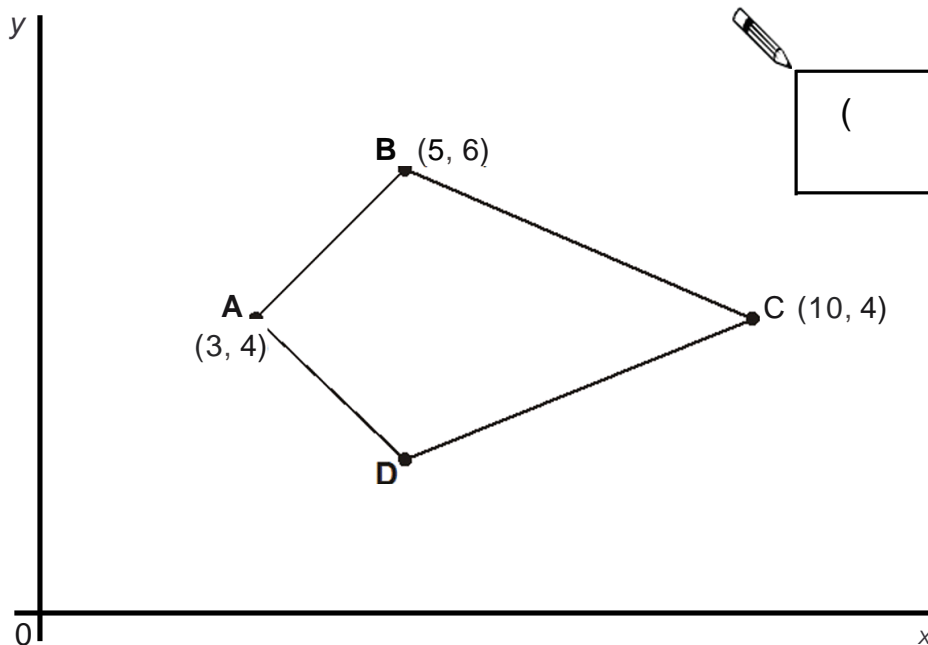
| | | | | |
|----------------------|----|-----|----------------------|----|
| <input type="text"/> | cm | and | <input type="text"/> | cm |
| <input type="text"/> | cm | and | <input type="text"/> | cm |

3 This
thermometer
shows
temperatures in
both $^{\circ}\text{C}$ and $^{\circ}\text{F}$.

Work out what 25°C is in $^{\circ}\text{F}$.



4 Here is a kite.



()

Write the coordinates of point **D**.

Day 8 - Arithmetic

1

$$0.077 + 2 =$$

A 10x10 grid of squares. A 4x2 rectangular area in the bottom right corner is highlighted with a thicker border. This area covers the last 4 rows and the last 2 columns of the grid.

☐

1 mark

2

99% of 356 =

A 20x10 grid of squares. A 10x5 rectangle is highlighted in the bottom right corner, spanning from the 10th column to the 20th column and from the 6th row to the 10th row.

1 mark



| | | | | | |
|---|---|---|---|---|---|
| 3 | 1 | 7 | 3 | 7 | 8 |
|---|---|---|---|---|---|

**Show
your
method**

A 20x10 grid of squares. A rectangle is highlighted in the bottom right corner, spanning 10 columns and 5 rows. The rectangle is defined by a thick black border.

2 marks

$$\frac{4}{5} + \frac{5}{15} =$$
A blank sheet of graph paper with a grid pattern. The grid consists of 20 columns and 10 rows. There are thick black lines forming the outer border of the grid. A small vertical line segment is present at the top left corner, outside the main grid area. Another small vertical line segment is located at the bottom right corner, near the intersection of the last column and last row.

| |
|--|
| |
|--|

$$\frac{6}{7} \times 2 = \frac{12}{7}$$

mark

$$2 \begin{vmatrix} 1 \\ 2 \end{vmatrix} + \begin{vmatrix} 1 \\ 3 \end{vmatrix} -$$

| |
|------|
| mark |
|------|

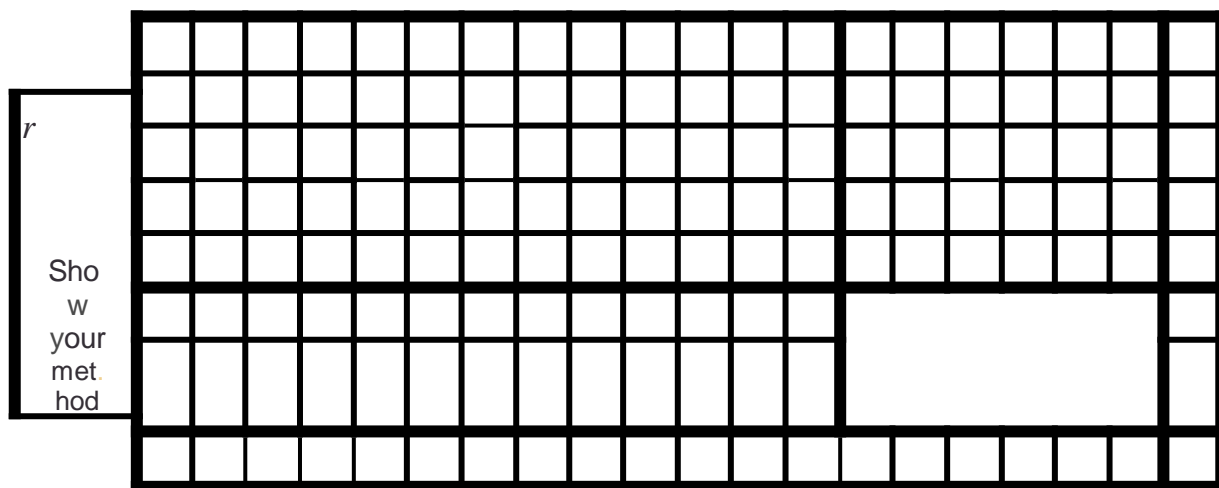
Day 8 - Reasoning

- 1 The numbers in this sequence increase by 30 each time.

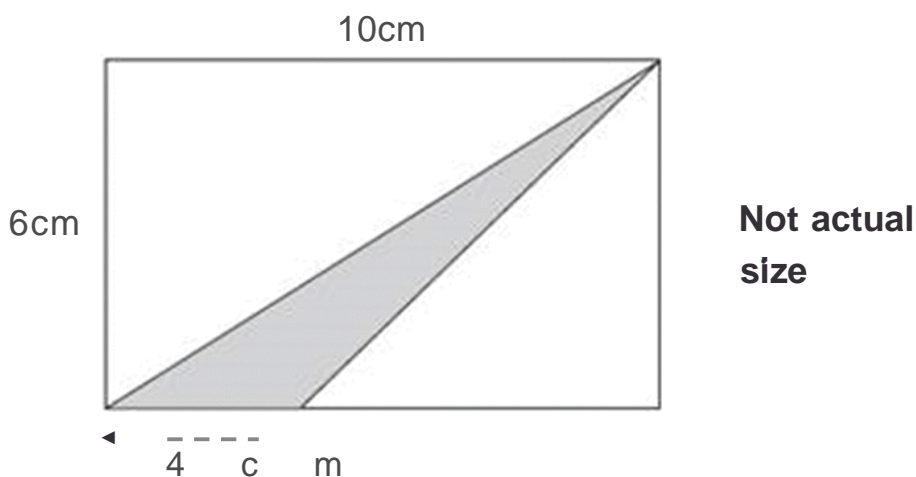
20 50 80 110 ...

The sequence continues in the same way.

Which number in the sequence will be **closest to 300**?



- 2 The diagram shows a shaded triangle inside a rectangle.



What is the area of the shaded triangle?

3

Liam thinks of a number.



He **multiplies the number by 5** and then **subtracts 60** from the result.

His answer equals the number he started with.

What was the number Liam started with?

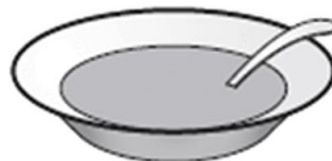
Show your **working**.
You may get a mark.

4

Alfie did a survey to find which soup was most popular.

The choices were:

- tomato
- chicken
- mushroom



A quarter of the children chose chicken soup.

Four times as many children chose tomato soup as chose mushroom soup.

Alfie makes a pie chart to show this information.

What **angle** should he use for the children who chose tomato soup?

Day 9 - Arithmetic

1

$$345 \times 5 \times 4 =$$



1 mark

2

$$3 - 7 \times 9 =$$

A 20x10 grid of squares. A 10x4 rectangle is highlighted in the bottom right corner, spanning from the 11th column to the 20th column and from the 7th row to the 10th row. The rectangle is defined by a thick black border.

1 m a r
k

3

$$= 1,320 + 11$$

[illegible]

1
mark

900 of 2,000 =

A 10x10 grid of squares. A 4x4 rectangle of white squares is located in the bottom right corner, starting from the 7th column and 7th row, and ending at the 10th column and 10th row. The rest of the grid is black.

11

1 mark

5

3 2 5 7 9 2

**Show
your
method**

A large rectangular grid composed of small squares, intended for drawing a picture. The grid is 20 squares wide and 10 squares high. A vertical line divides the grid into two equal halves of 10 squares each. A horizontal line divides the grid into two equal halves of 10 rows each. The intersection of these lines is in the center of the grid.

11

2 marks

6

$$\begin{array}{r} 3 \\ 4 \end{array} + \frac{3}{12} =$$

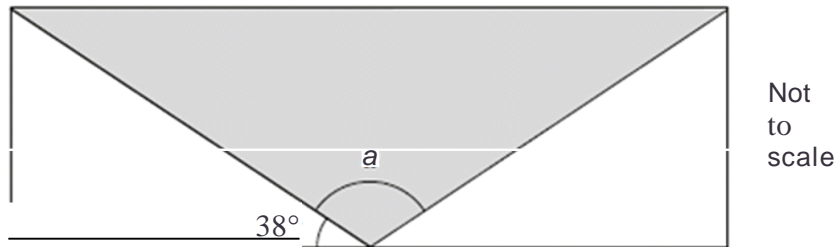
[illegible]

11

1 mark

Day 9 - Reasoning

- 1 A shaded isosceles triangle is drawn inside a rectangle.





Calculate the size of angle a .

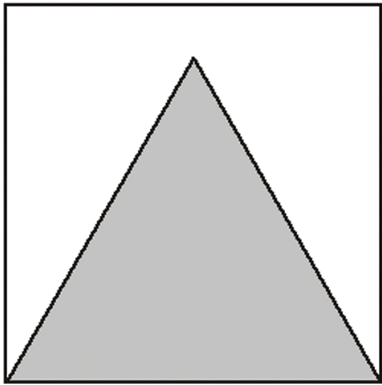
ShOw
'
y
our
meth
od

Three-quarters of a number is 48
What is the number?

0



3 Here is an equilateral triangle inside a square.



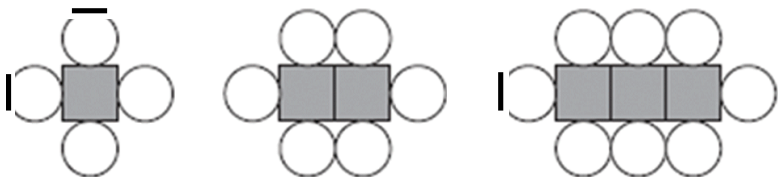
Not actual size

The perimeter of the triangle is 48 centimetres.

What is the perimeter of the **square**?

4 Here is a sequence of shapes.

Each time a square is added to a shape, two more circles are added.

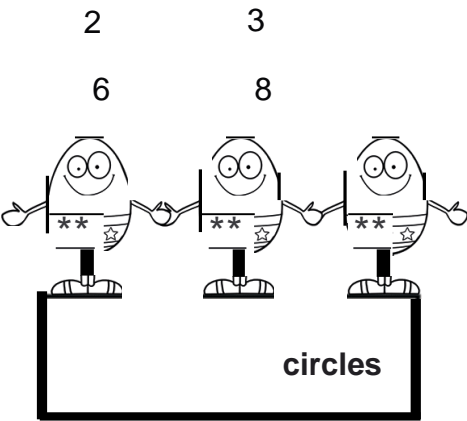


| | |
|-----------------------------|---|
| number of squares, <i>s</i> | 1 |
| number of circles, <i>c</i> | 4 |

The sequence of shapes continues.

The formula for the sequence is $c = 2s + 2$

Calculate the number of circles when the number of squares in a shape is **150**.



How many squares are there in a shape that has **100** circles?

Day 10 - Arithmetic

1

$$-19 + 3,078 =$$

[illegible]

1 mark

2

$$3 \times 72 + 7 \times 72 =$$

A 20x10 grid with a 5x3 rectangle highlighted in the bottom right corner.

1 mark

$$1.45 \times 7$$

A 20x10 grid with a 10x5 rectangular area highlighted in the bottom right corner.

11

1 mark

A 20x10 grid of squares. A 5x3 rectangle is highlighted in the bottom right corner, spanning from the 15th column to the 20th column and from the 8th row to the 10th row. The highlighted area is a solid black rectangle.

1 mark

A 20x10 grid of squares. A rectangle is highlighted in the bottom right corner, spanning 5 columns and 2 rows. The rectangle is defined by a thick black border. It starts at column 15, row 8 and ends at column 20, row 10.

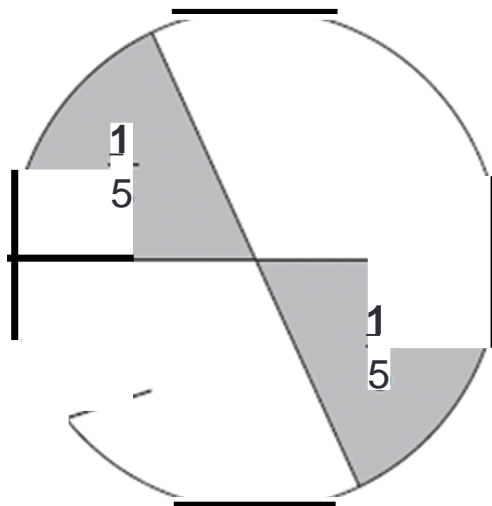
1 mark

A 20x10 grid of squares. A 5x2 rectangle is highlighted in the bottom right corner, spanning from the 15th column to the 20th column and from the 8th row to the 10th row. The rectangle is defined by a thick black border.

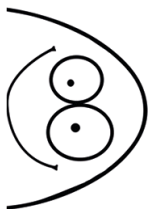
1 mark

Day 10 - Reasoning

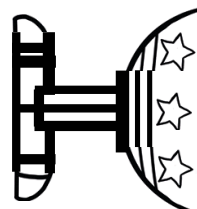
- 1 In this circle, each shaded part is $\frac{1}{5}$ of the area of the circle.
The two white parts have equal areas.



Not
drawn
accurately



?



What fraction of the circle is one of the white areas?

- 2 Write in the missing number.



50

÷

-

2.5

- 3 20% of the children in a sports club play tennis.



25% of the children who play tennis **also** play rounders.

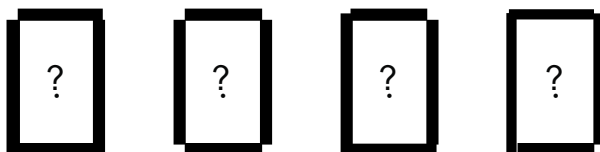


There are 8 children in the club who play **both** tennis and rounders.

How many children are there in the sports club **altogether**?

- 4 Debbie has a pack of cards numbered from 1 to 20

She picks four different number cards.

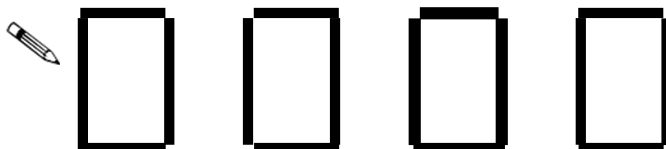


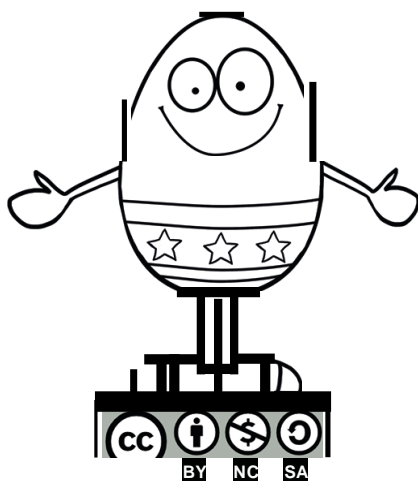
Exactly three of the four numbers are multiples of 5

Exactly three of the four numbers are even numbers.

All four of the numbers add up to less than 40

Write what the numbers could be.





For source files visit: <http://bit.ly/2muSRlX>

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