Lancashire Curriculum Tests

Year 4 – End of Summer Term

(Meeting end of year expectations)

Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks	

Lancashire County Council

Instructions

You **may not** use a calculator to answer any questions in this test.

Questions and answers

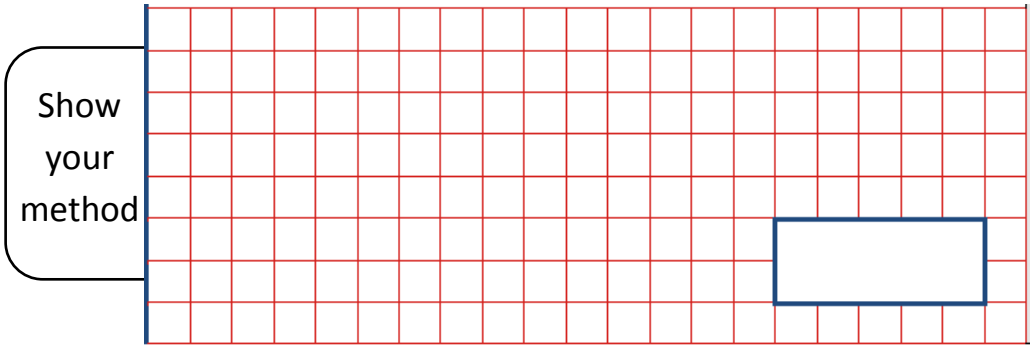
You have approximately **40 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do any working out, you can use the space around the question.

Some question have a method box like this:



For these questions, you may get a mark for showing your method.

If you cannot do one of the questions, **go on to the next one**.
You can come back to it later if you have time.

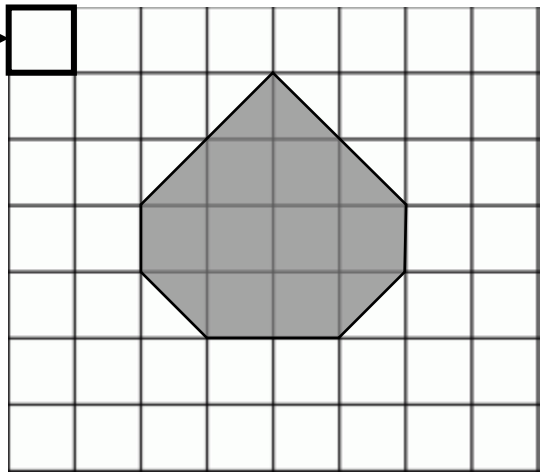
If you finish before the end, **go back and check your work**.

Marks

The number under each line at the side of the page tells you the maximum number of marks available for each question.

1 What is the **area** of the shaded shape?

Each square is 1 cm²



Not to scale

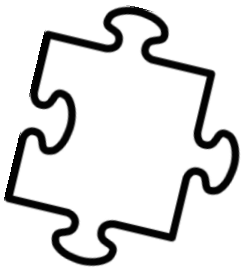
cm²

1 mark

2 Ben has nearly finished doing a jigsaw.

It has 5,000 pieces in total.

He has 10 jigsaw pieces **left** to join together.



How many pieces has he joined together so far?

1 mark

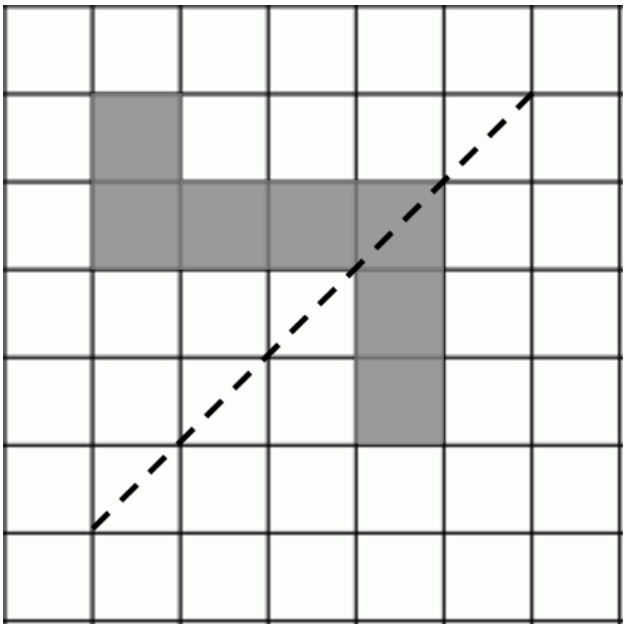
3 There are 6,467 runners in a charity race.

How many runners is this rounded to the **nearest 100?**

1 mark

4 The shaded shape is symmetrical but has two squares missing.

Shade **two more squares** to complete the **symmetrical** shape.



1 mark

5 The numbers in this sequence increase by the same rule each time.

Write the **three** missing numbers.

☐ 3 6 12 ☐ ☐

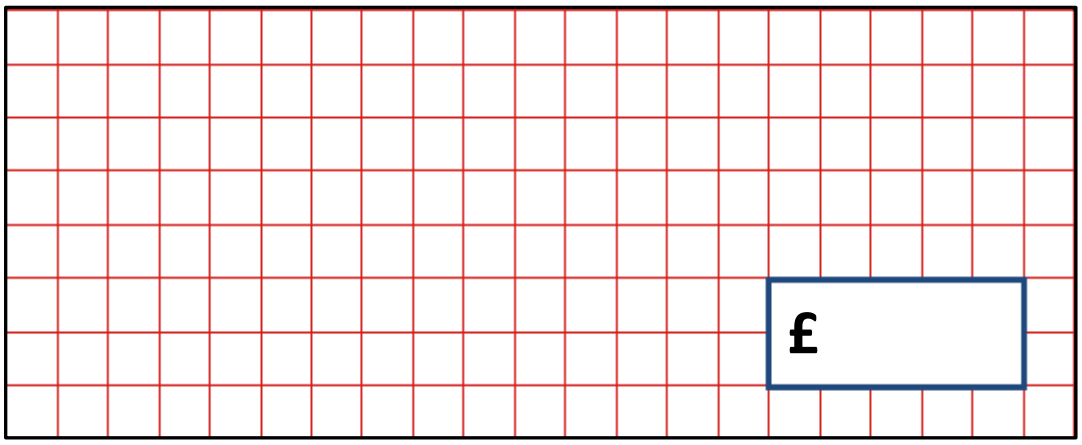
☐

2 marks

6 Lin is saving for a dancing outfit that costs £38.90

She has saved £28.40

How much **more** does she need to save in order to buy it?

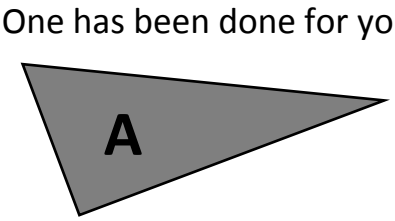


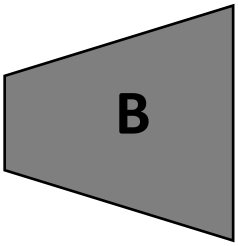
☐

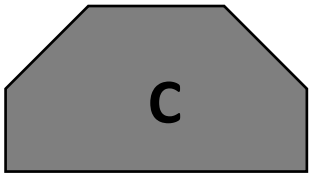
1 mark

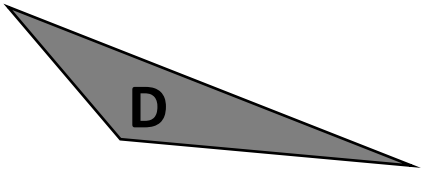
7 Put the letter of each shape in the correct place on the diagram.

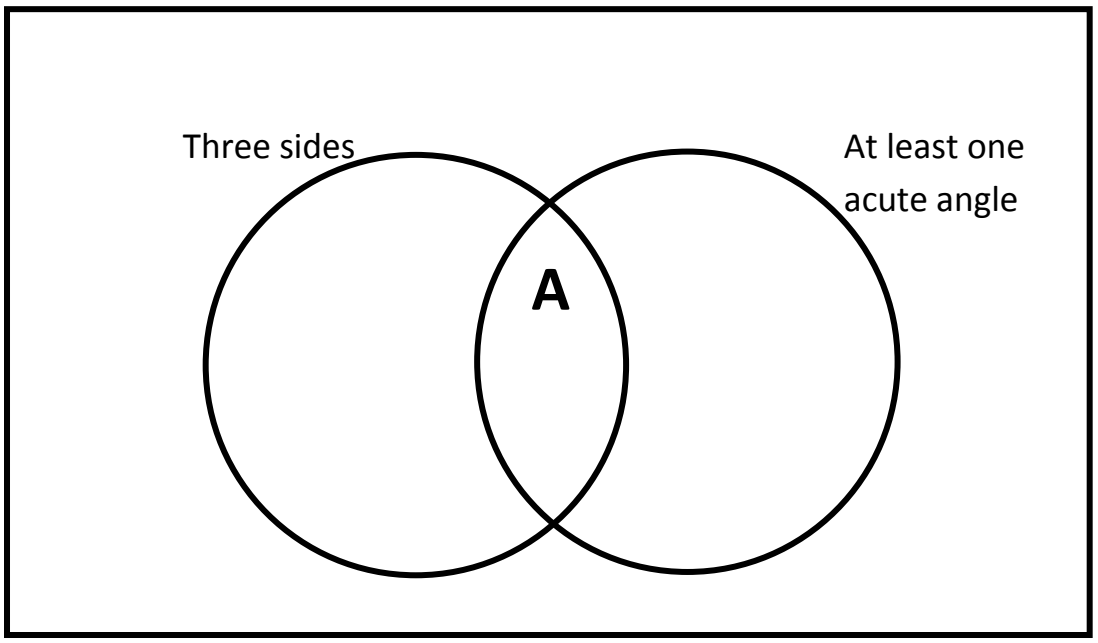
One has been done for you.





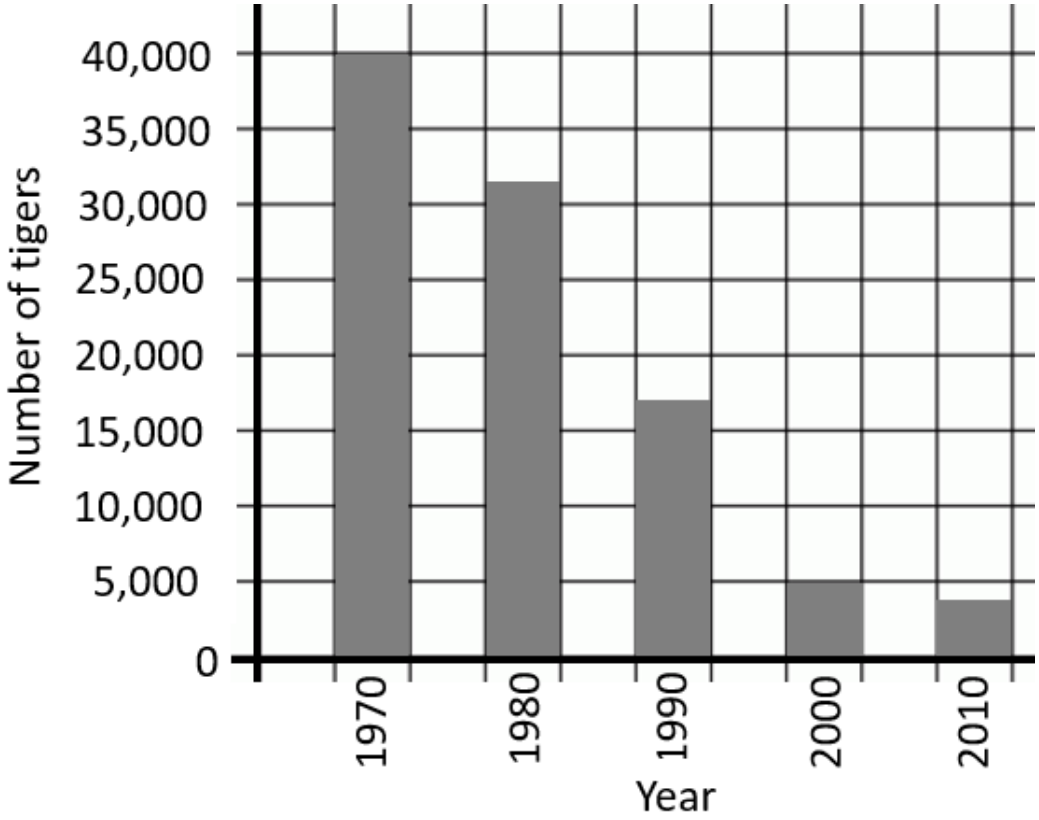






1 mark

8 Here is a graph showing the population of tigers living in the wild between 1970 and 2010.



How many tigers were living in the wild in **2010**?

1 mark

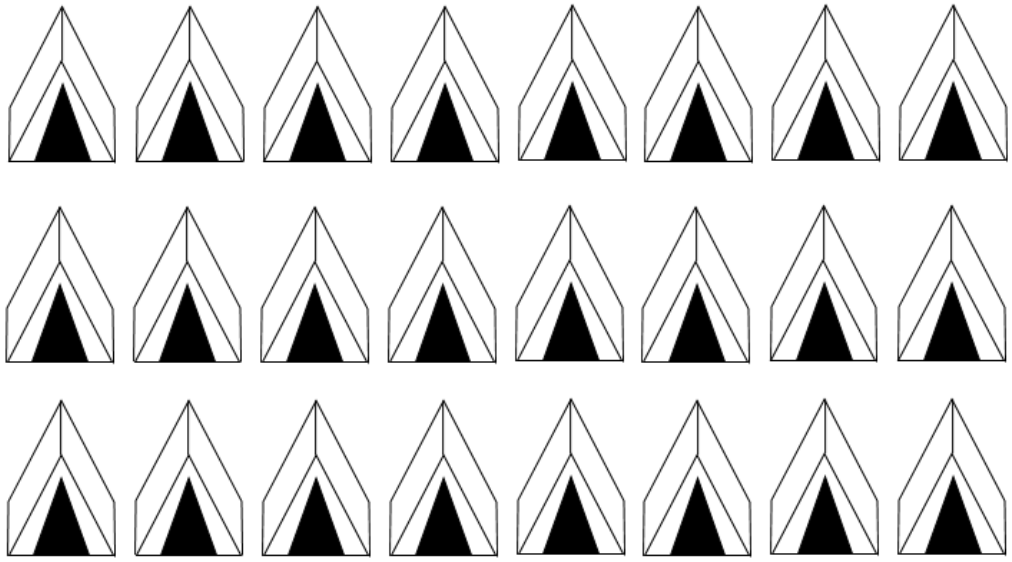
Between which two consecutive years on the graph did the number of tigers **decrease the most**?

and

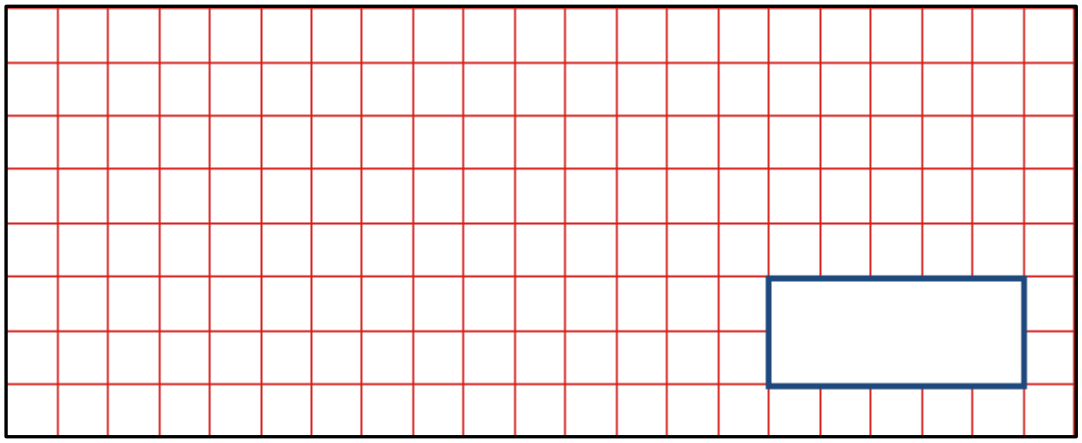
1 mark

9 At Brownie camp, there are **four people in each tent**.

The tents are set out in these rows.



How many **people** are at Brownie camp?



1 mark

10 What **fraction** of £1 is 24p?

1 mark

11 Sara and Ben are on holiday.

They go to the kids' club at these times on one of the days:

Sara 9:30am – 11:00am and 1:45pm – 4:00pm

Ben 9:15am – 11:00am and 1:30pm – 3:40pm

Circle the name of the child who goes to the kids' club for the longest time.

Sara **Ben**

Explain how you know.

2 marks

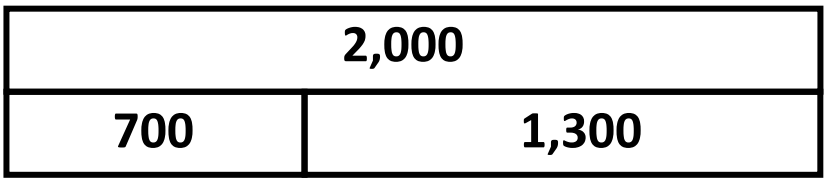
12 Fill in the missing **signs** to make the calculation correct.

$$63 \square 9 = 28 \square 4$$

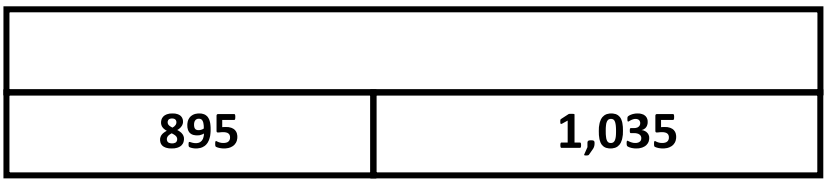
1 mark

13 In these bar models, the top bar is the total of the smaller bars below.

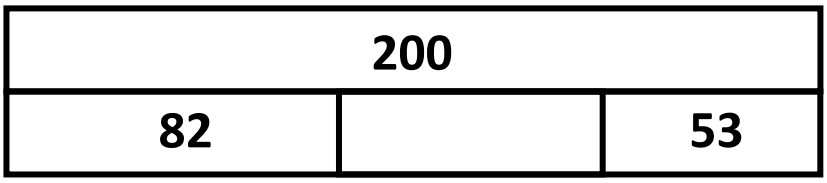
Example:



Fill in the missing numbers in these bar models.

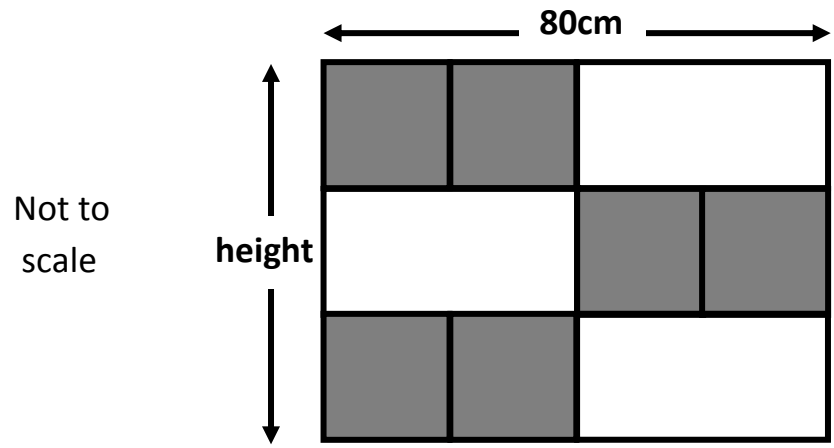


1 mark



1 mark

14 Here is a design made from two different types of tile.



What is the **height** of this design?

cm

1 mark

What **fraction** of the total design is white?

1 mark

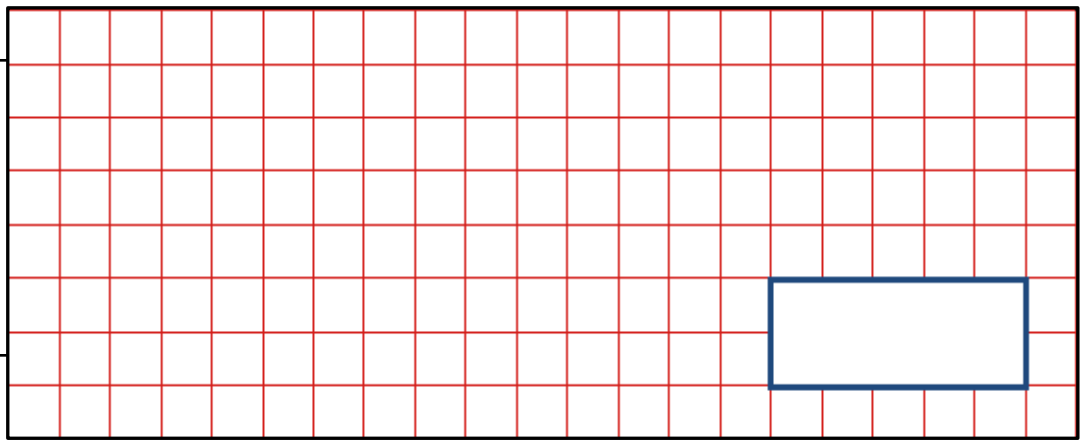
15 Lin is selling bags of charms at the summer fair.

She has 175 charms to sell.

Each bag contains **four charms**.

How many **full bags** of charms can Lin sell?

Show your method

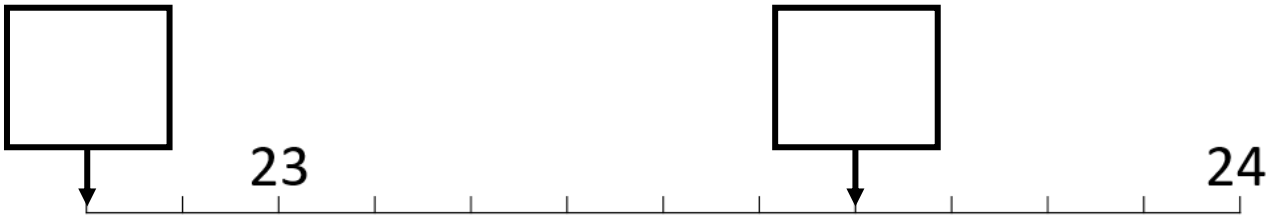


2 marks

16 Write the number six thousand and twelve using **digits**.

1 mark

17 Fill in the missing numbers on this number line.



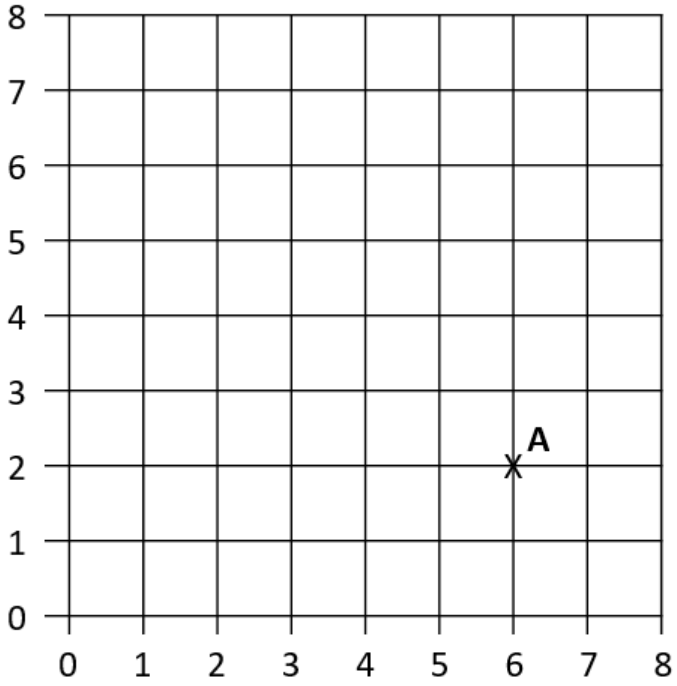
1 mark

18 Match the fractions to the correct decimals.

$\frac{1}{2}$	0.25
$\frac{1}{4}$	0.75
$\frac{3}{4}$	0.5

1 mark

19 Here is a coordinate grid.



What are the coordinates of point A?

_____

1 mark

Point A is at one of the vertices of an **oblong**.

Tick the set of coordinates that would complete the **oblong**.

(6, 0) (3, 0) (2, 3) ☐

(8, 2) (8, 4) (6, 4) ☐

(6, 7) (5, 7) (5, 2) ☐

1 mark

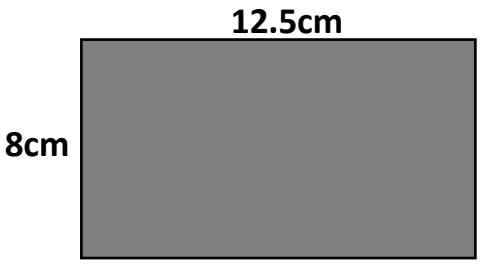
20 Ben's favourite TV programme starts at **twenty minutes past four in the afternoon**.

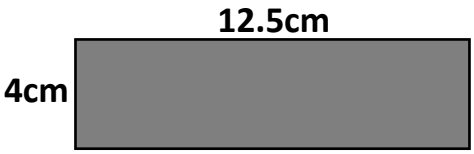
Circle the correct way of writing this time using 24hr clock.

14:20 15:20 16:20 17:20

1 mark

21 How much **longer is the perimeter** of rectangle A than rectangle B?





Diagrams not to scale

Show your method

cm

2 marks

22 The colosseum in Rome had 80 entrances.

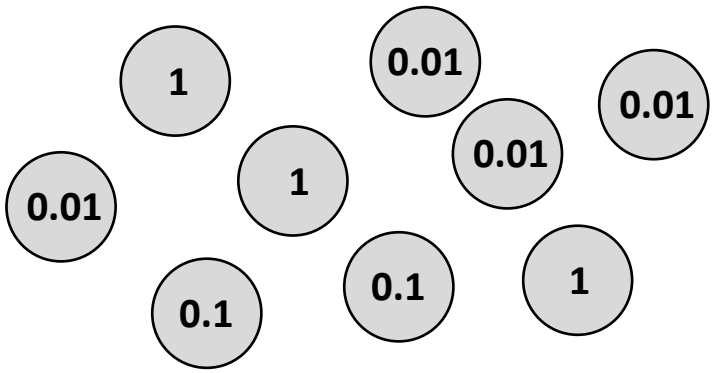
They were all numbered using Roman numerals.

Write the number **80** in Roman numerals.

_____

1 mark

23 Here are some place value counters.

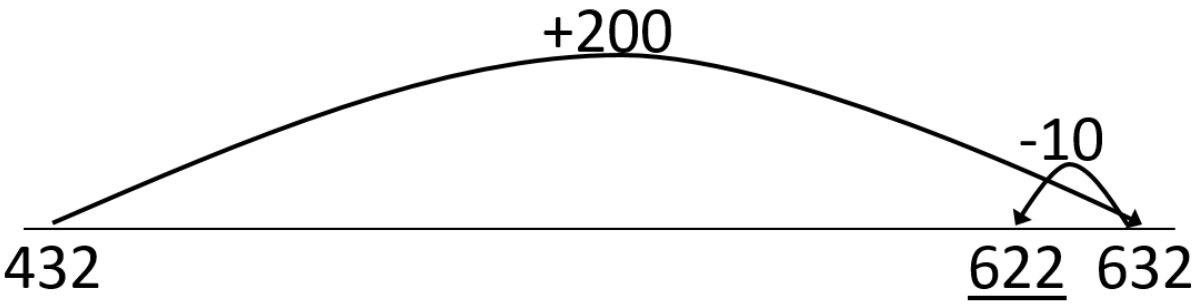


What is their total value?

1 mark

24 Sara is working out a calculation.

This is her working out:

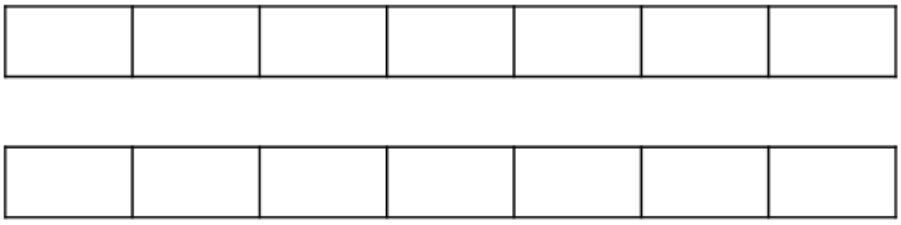


Fill in the boxes to show the calculation Sara is working out.

$\square + \square = 622$

1 mark

25 Use these fraction strips to calculate $\frac{12}{7} - \frac{6}{7}$

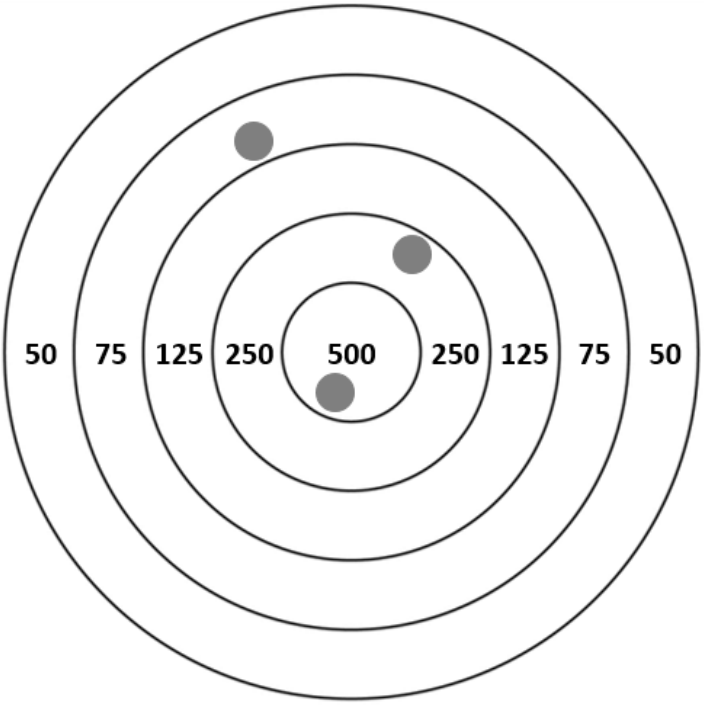


$\frac{\square}{\square}$

1 mark

26 Sam and Lin are playing a target game.

This is what Sam scored with the grey discs:



500 + 250 + 75 = 825

Think of **three different** ways in which Lin could beat Sam's score using her three discs.

$\square + \square + \square > 825$

$\square + \square + \square > 825$

$\square + \square + \square > 825$

2 marks

END OF TEST