Lancashire Curriculum Tests

Year 5 – End of Spring Term

(On track to meet 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

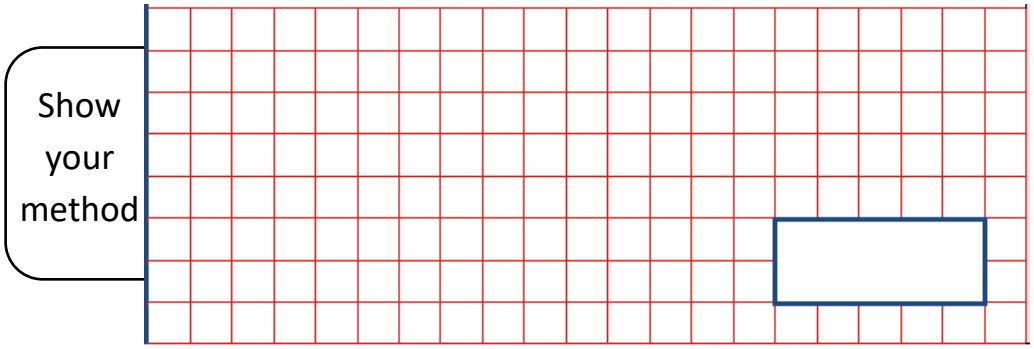
You have approximately **40 minutes** to complete this test.

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 Three hundred and forty thousand nine hundred and twenty-six

Write this number in **figures**.

_____

1 mark

2 Ali is saving up to buy a new computer game which costs £47.85

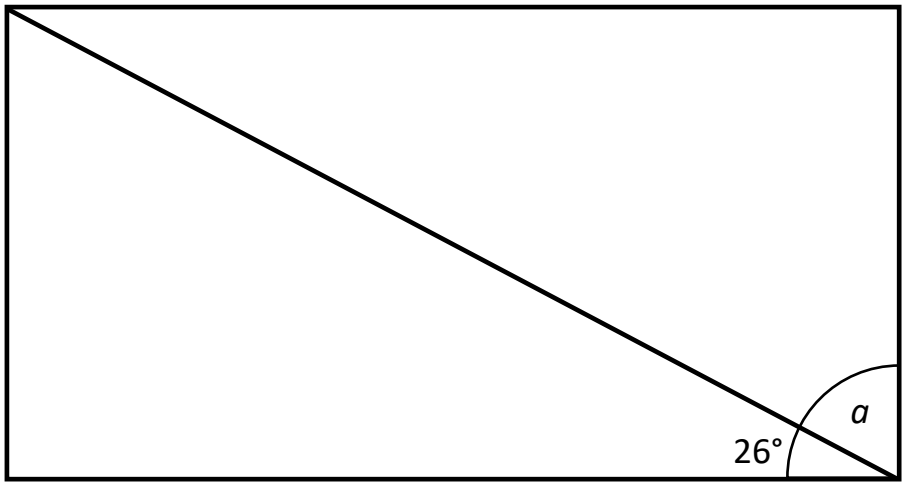
He has saved £28.90

How much **more** does Ali need to save to buy the game?

£

1 mark

3 **Calculate** angle *a* in this rectangle.



Not drawn to scale

o

1 mark

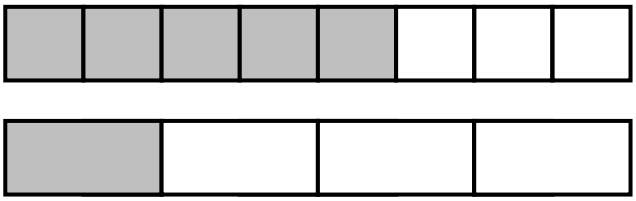
4 In measurement, the unit of 1 foot is approximately 30cm.

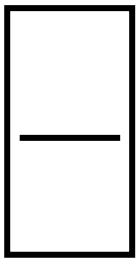
How many centimetres are there in 20 feet?

cm

1 mark

5 Use the fractions strips to calculate the answer to $\frac{1}{4}$ add $\frac{5}{8}$





1 mark

6 Tick the shapes that must be **regular**.

square ☐

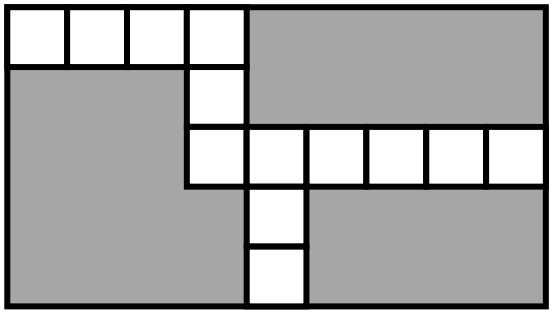
pentagon ☐

equilateral triangle ☐

1 mark

7 Here is a grey rectangle with some white squares on it.

Each white square is $1m^2$



Not drawn to scale

What is the **total area** of the grey rectangle?

m^2

1 mark

8 Here is a time shown on a 24 hour clock.

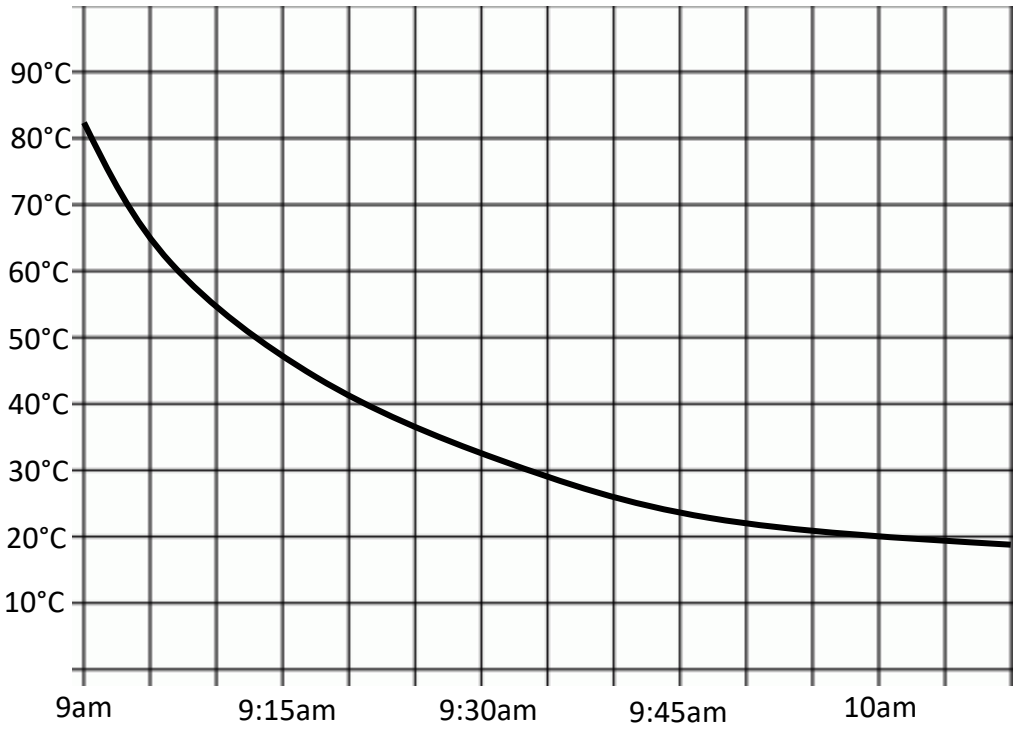
20:45

What time is it using 12 hour clock notation?

_____

1 mark

9 This line graph shows the change in temperature of a cup of hot chocolate that has been left on a table.



What was the **temperature** of the drink at 9:15am?

°C

1 mark

At what **time** did the temperature of the drink reach 30°C?

am

1 mark

10 Which of these are factor pairs for the number 240?

Tick the ones that apply

12 x 20	☐
80 x 30	☐
4 x 60	☐
30 x 8	☐
40 x 60	☐

☐

2 marks

11 Write **all** the numbers between 250 and 280 that are divisible by 6

_____

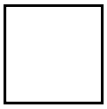
☐

2 marks

12 The numbers in this sequence increase by 10,000 each time.

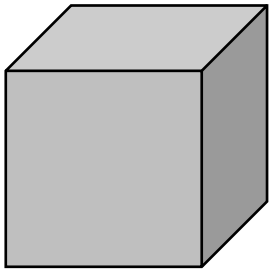
Write the missing numbers.

 23,500 33,500 43,500 

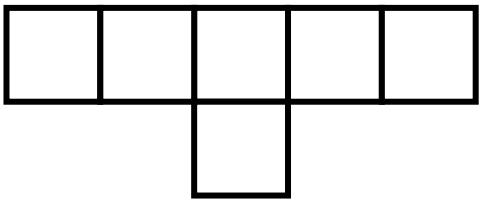


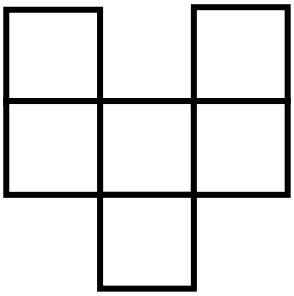
1 mark

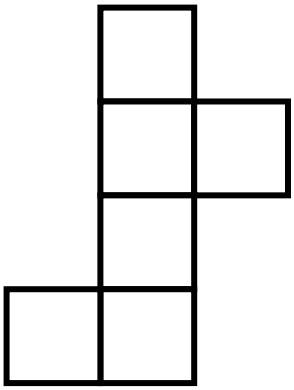
13 Sara has a cardboard box that is a cube.
She cuts along some of the edges and opens it out to look at its net.

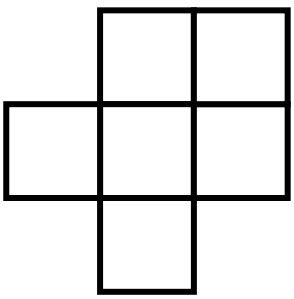


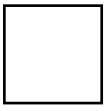
Tick the **one** net that will make a cube.











1 mark

14 Ali and Ben want to start collecting stickers.
One packet of stickers costs 85p.
The sticker album costs £2.40
They decide to buy **six packets** of stickers and one sticker album.

How much do they **each** have to pay if they share the cost equally?

Show your method

£

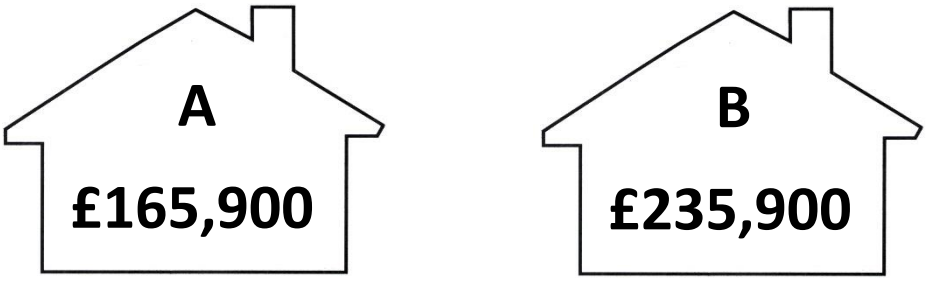
3 marks

15 Write the mixed number $3\frac{5}{6}$ as an improper fraction.

—

1 mark

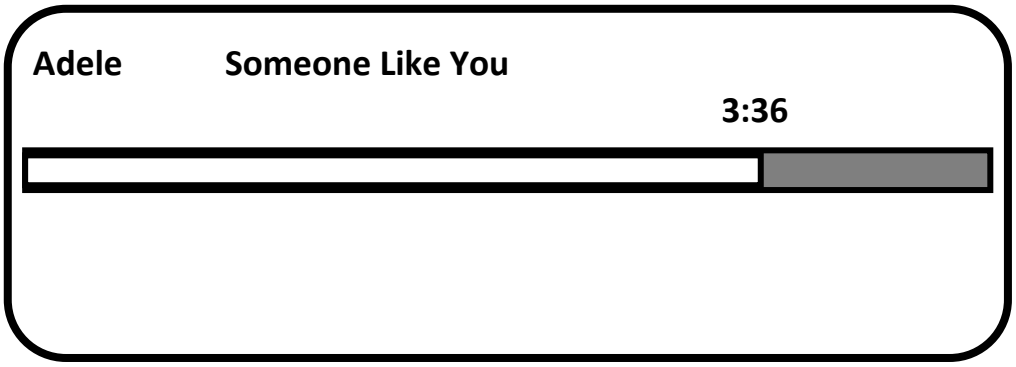
16 Here are the prices of two houses.



Which house is **closest** in value to £200,000?
Explain how you know.

2 marks

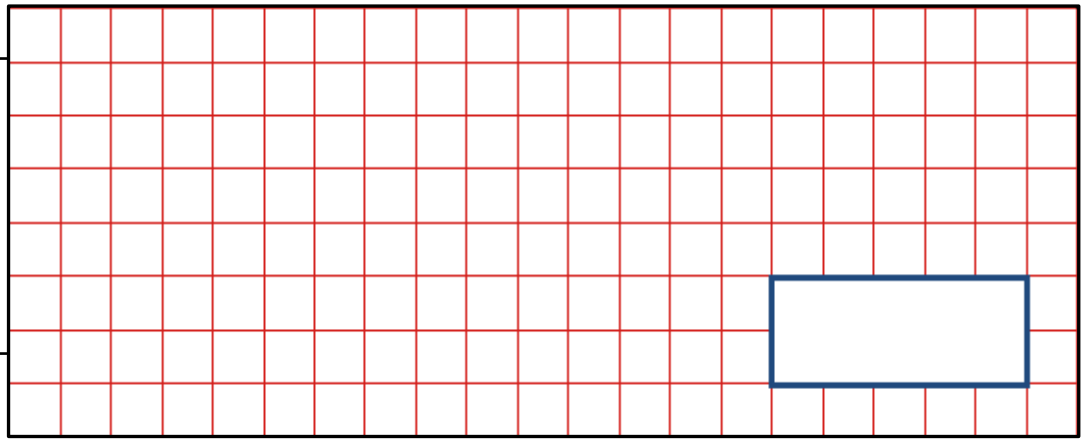
17 This is what Ali's music player is showing.



The song is **three quarters** of the way through and has lasted 3 minutes and 36 seconds.

How long is the song in total?

Show your method



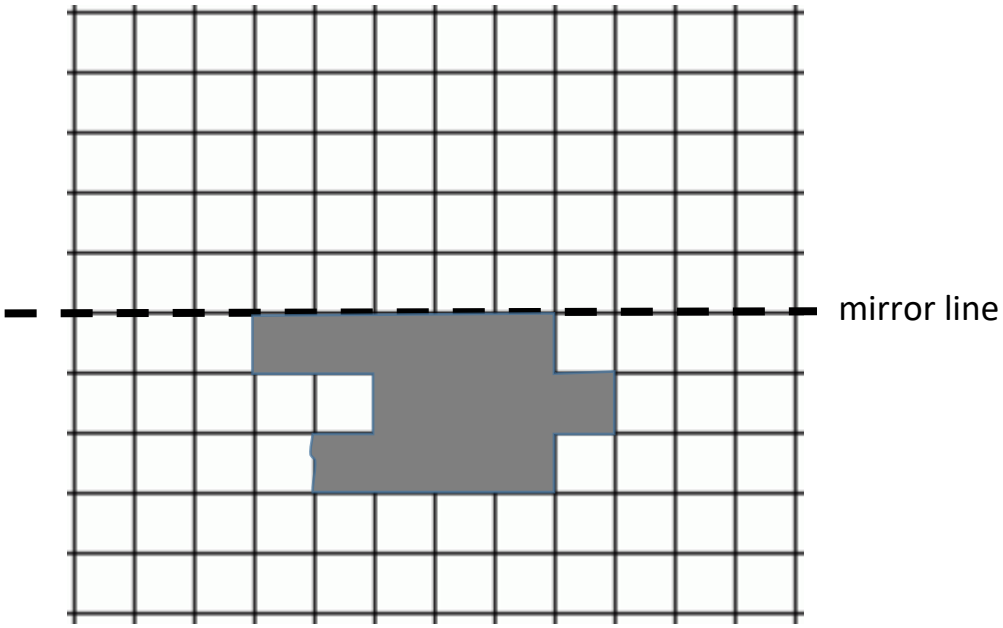
2 marks

18 Fill in the missing number to complete the calculation.

$$342 \div \square = 3.42$$

1 mark

19 Draw the reflection of the shaded shape on the grid.



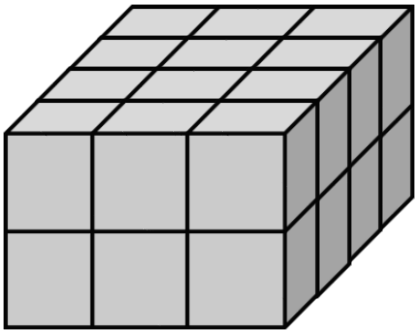
1 mark

20 What number is represented by these Roman numerals?

CCCLX

1 mark

21 Ben makes this cuboid using 1 cm^3 cubes.



What is the **volume** of Ben's cuboid?

cm^3

1 marks

Sara makes a cuboid that has the **same volume** but different dimensions.

What could the dimensions of Sara's cuboid be?

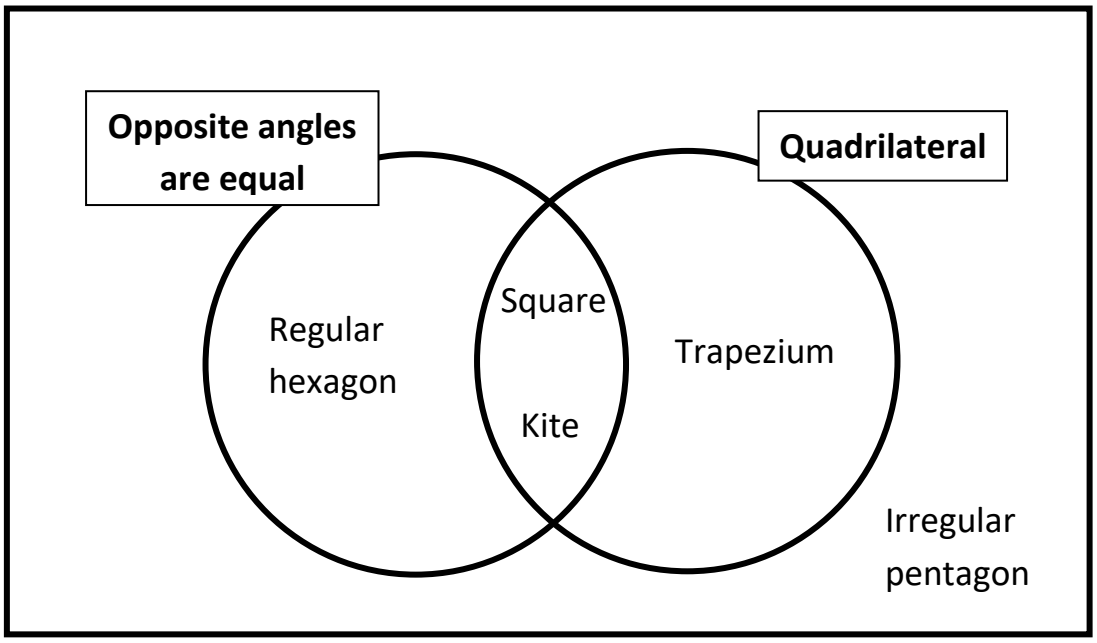
Width cm

Height cm

Depth cm

1 marks

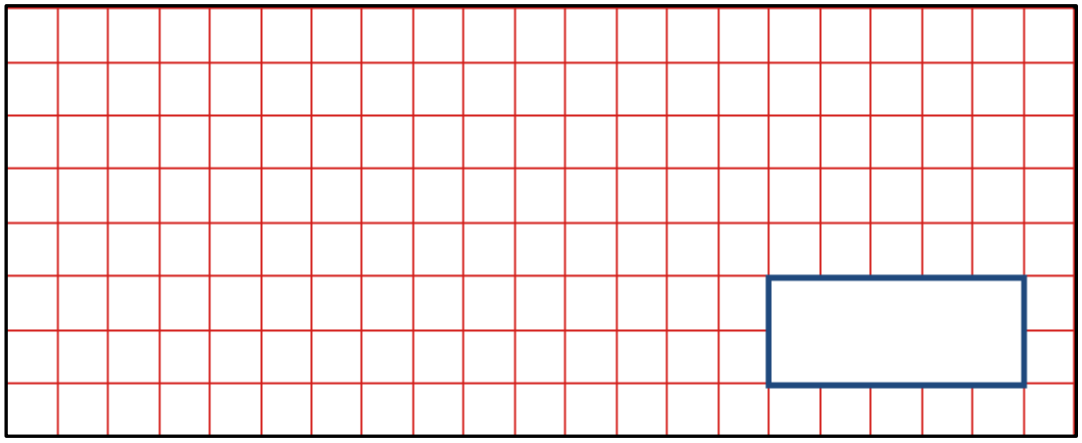
22 **Cross** the shape that has been sorted incorrectly.



1 mark

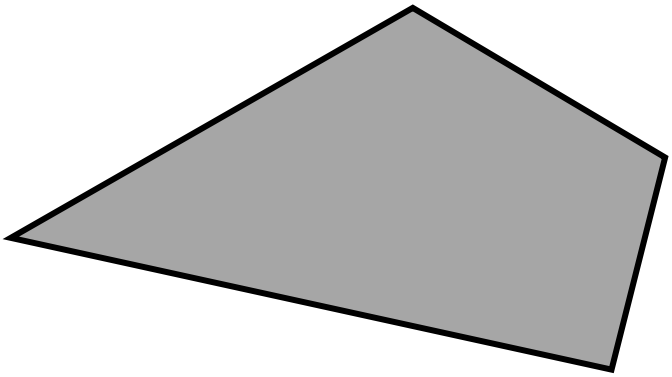
23 A sweet shop receives an order of 60 packets of Jelly Beans.
Each packet contains 75 Jelly Beans.

How many Jelly Beans is this in total?



1 mark

24 **Estimate** the size of the **acute angle** in this shape.



°

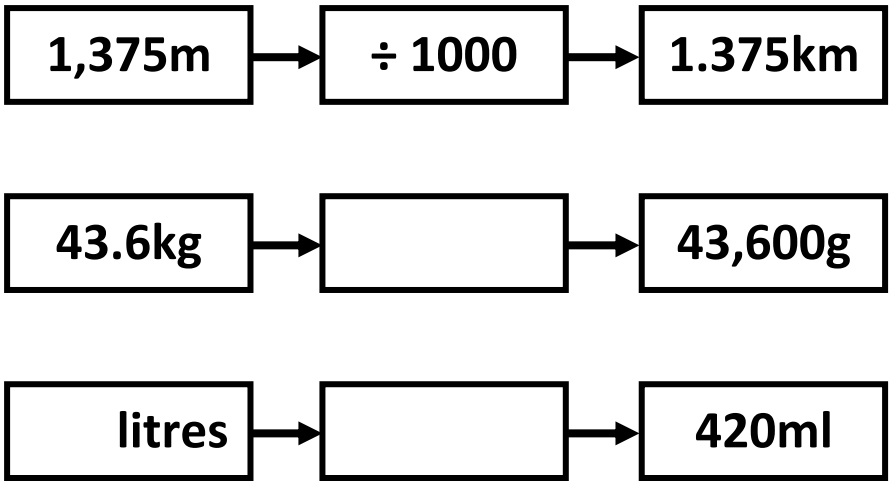
1 mark

25 **45,621 – 32,954 = 12,667**

Explain how you can use this to work out **65,621 – 52,954**

1 mark

26 Complete each of these measurement conversions.
The first one has been done for you.



2 marks

END OF TEST