Lancashire Curriculum Tests

Year 3 – 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

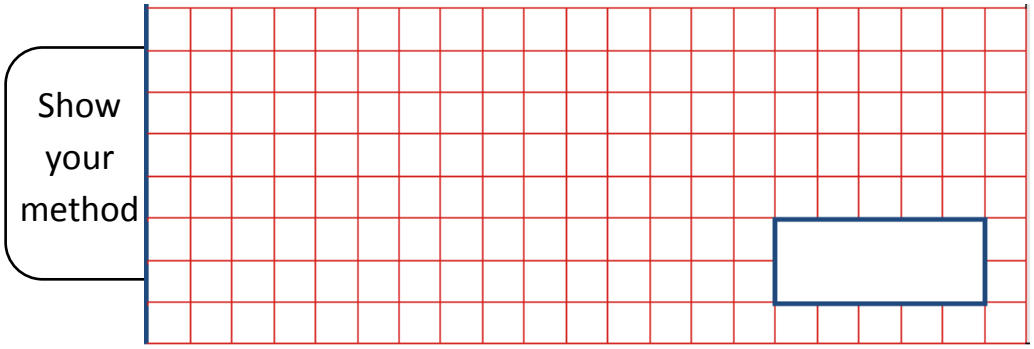
You have approximately **40 minutes** to complete this test.

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 Round the following numbers to the **nearest 10**

372 → to the nearest 10 → ☐

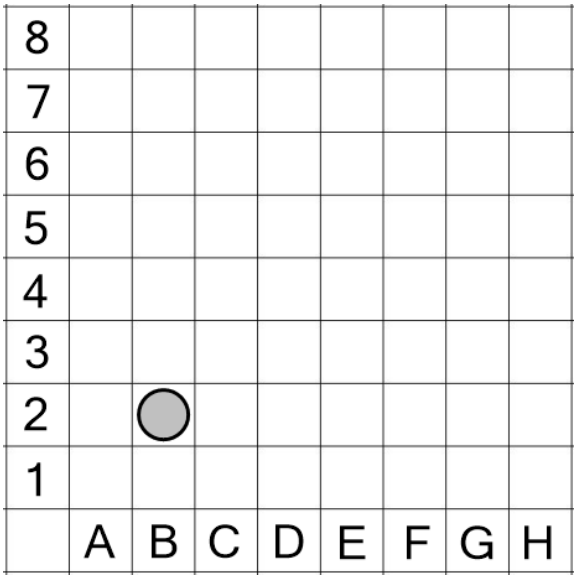
635 → to the nearest 10 → ☐

197 → to the nearest 10 → ☐

☐

2 marks

2 Lin has placed a counter on square B2 on the grid below.



She moves the counter 4 squares right and 2 squares up.

Write the position of the square she moves it to.

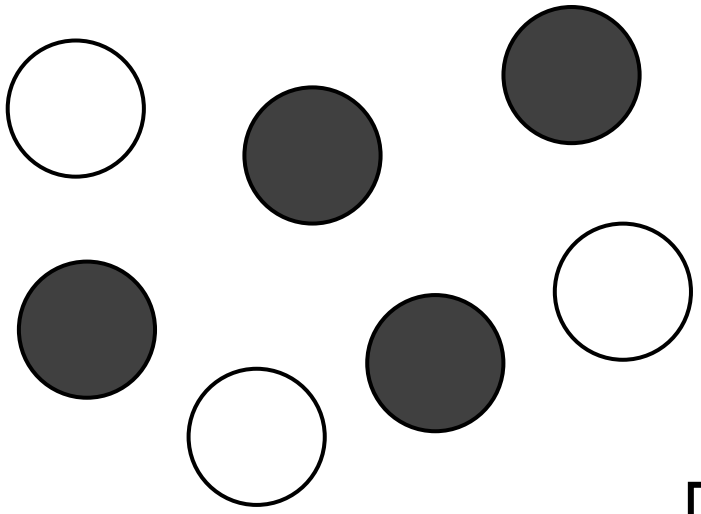
☐

☐

1 mark

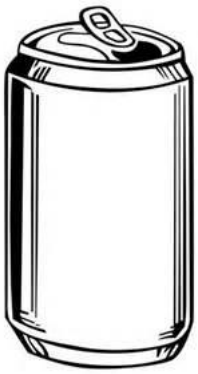
3 Here are some counters.

What fraction of the counters are white?



1 mark

4 Ben bought a can of lemonade.



Circle the **capacity** of the can of lemonade.

3ml 30ml 330ml 3300ml

1 mark

5 Write the missing number.

One has been done for you.

576 —is 300 more than→ 276

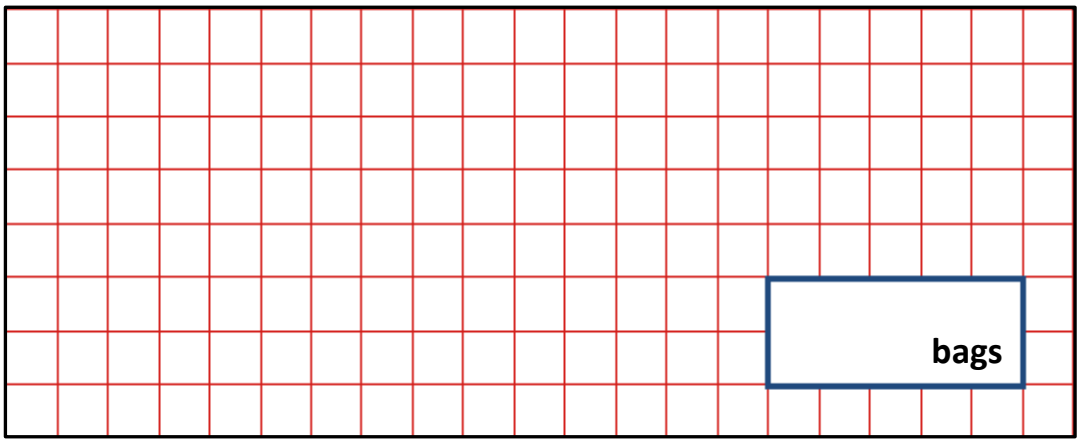
☐ —is 300 more than→ 482

☐

1 mark

6 A shop keeper has 48 balloons. She puts them into **bags of 3**.

How many bags of balloons can she make?



☐

1 mark

7 Here are three masses.

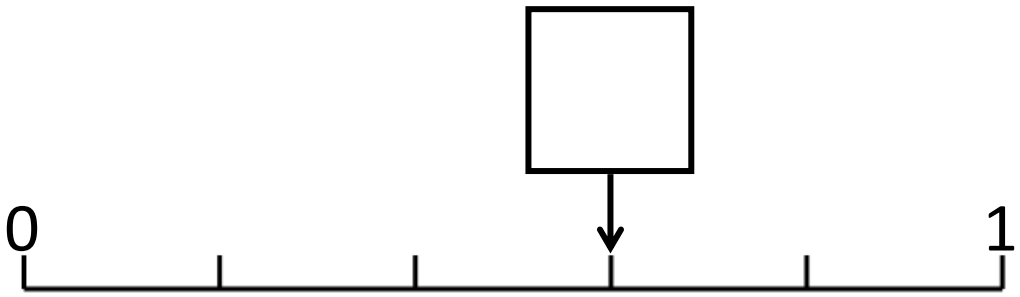
1kg	500g	700g

Write the masses in order, starting with the **lightest**.

1 mark

8 Here is part of a number line.

Write in the missing **fraction**.

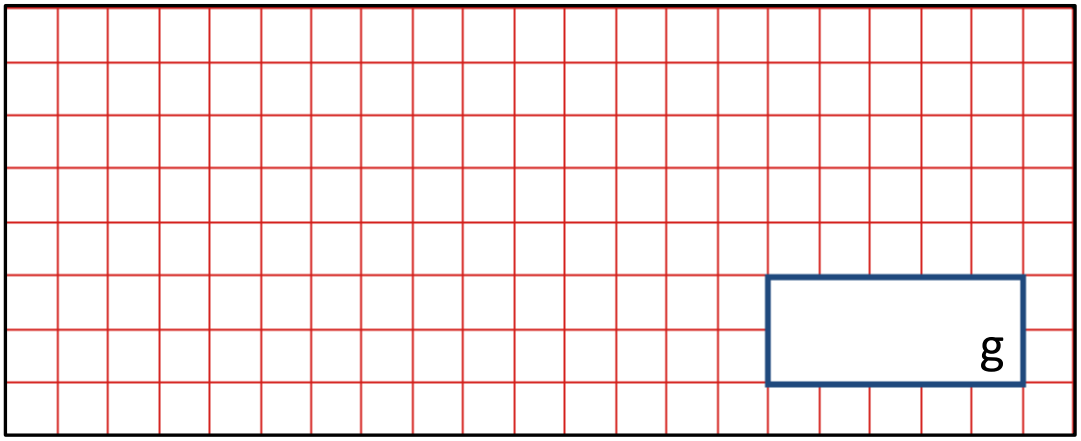


1 mark

9 Look at the table.

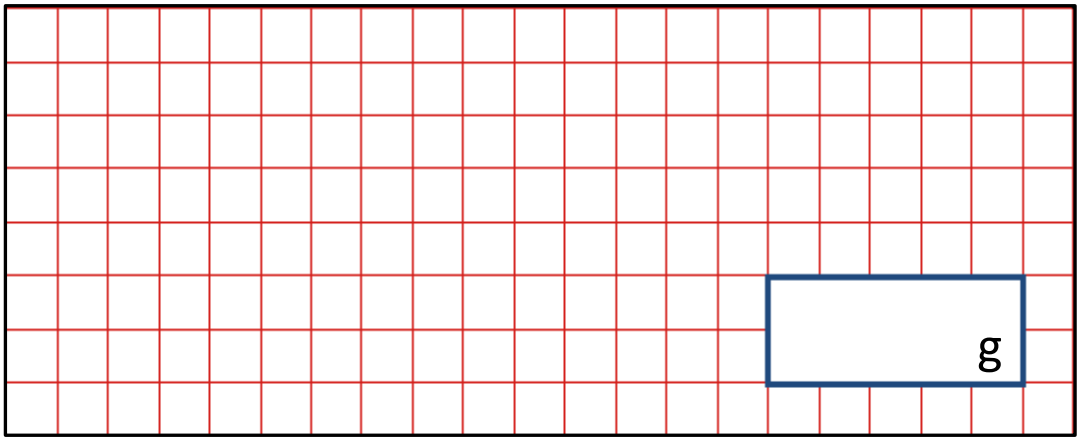
Food	Mass
apple	167g
potato	342g
onion	158g
banana	145g
orange	183g

How much heavier is the **potato** than the **onion**?



1 mark

What is the total mass of the **apple** and the **orange**?



1 mark

10 The numbers in this sequence decrease by the same amount each time.

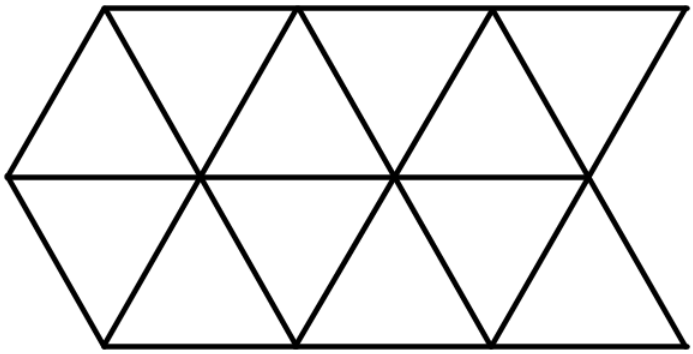
Write the two missing numbers.

☐ 400 350 300 ☐

☐

1 mark

11 Shade $\frac{1}{4}$ of this shape.



☐

1 mark

12 Write the missing number.

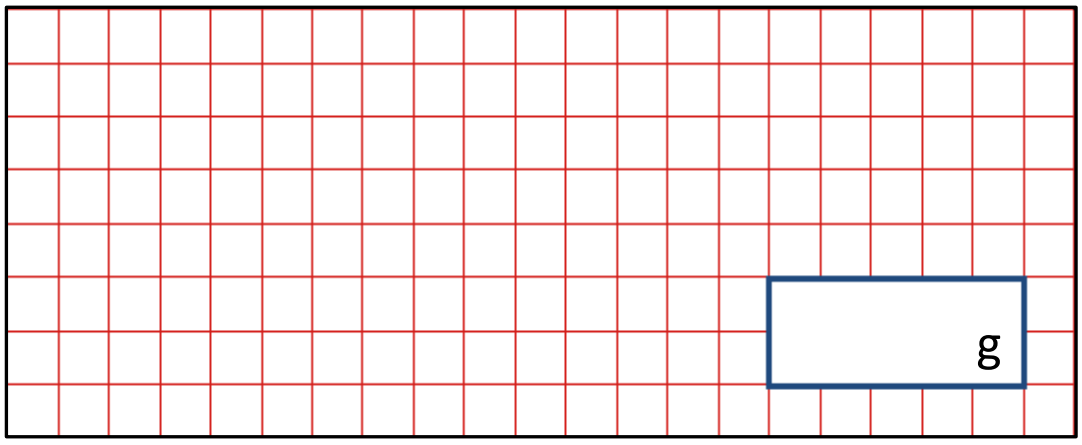
$$80 \div \square = 20$$

1 mark

13 Ben, Lin and Sara each have a pair of scissors.

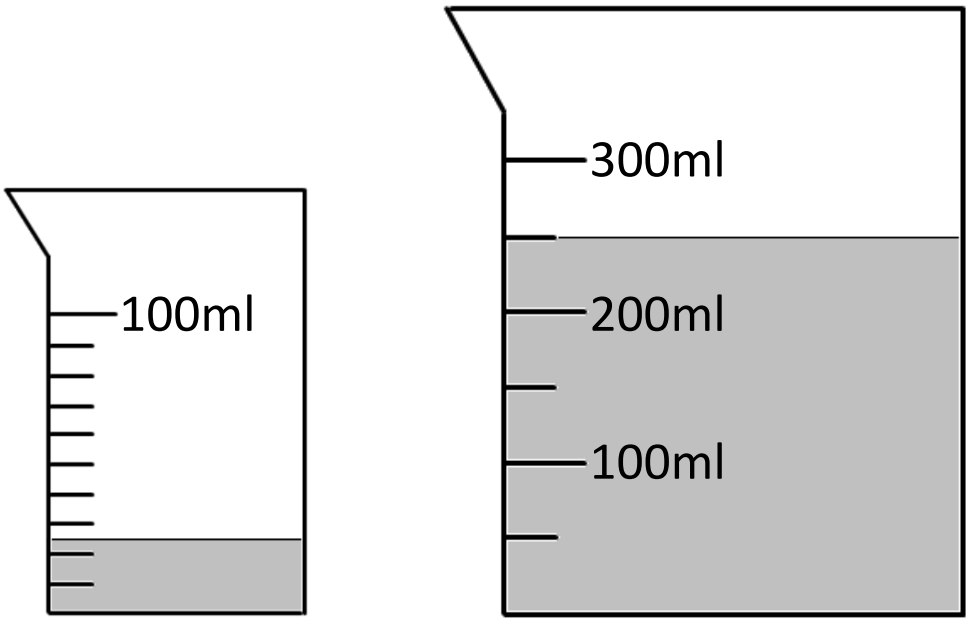
Each pair of scissors has a mass of 48g.

What is the mass of their scissors **altogether**?



1 mark

14 Lin measured some orange cordial and some water.



Lin added the orange cordial to the water to make a drink.

What was the **total volume** of the drink?

Show your method

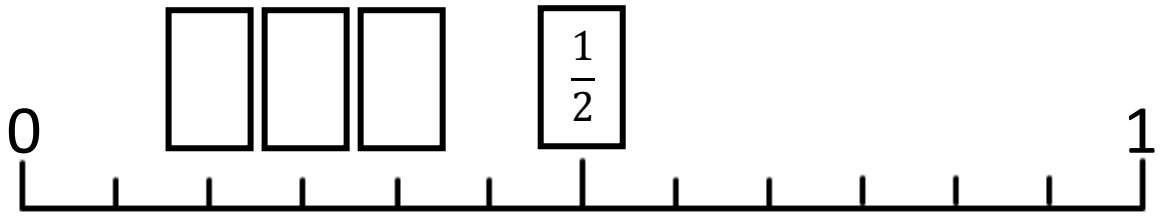
ml

2 marks

15 Write these fractions in the boxes on the number line.

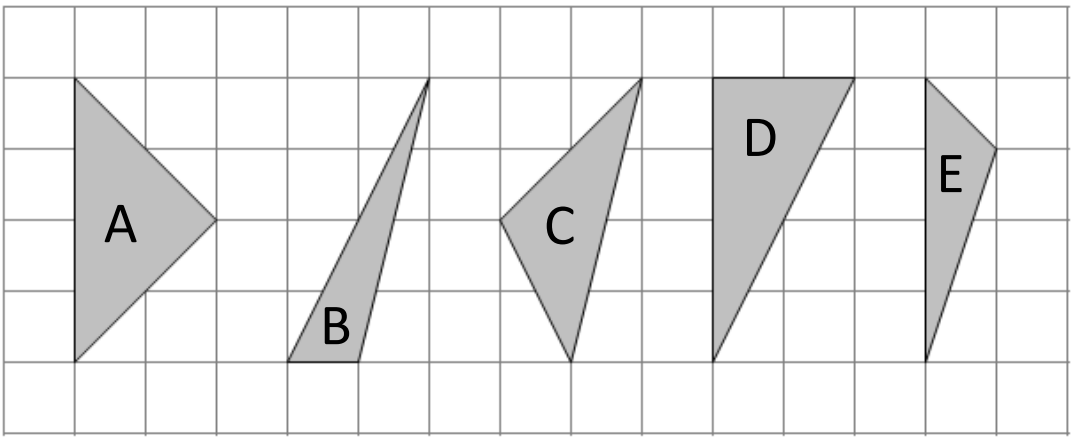
$\frac{1}{3}$ $\frac{1}{6}$ ~~$\frac{1}{2}$~~ $\frac{1}{4}$

One has been done for you.



1 mark

16 Here are five shaded triangles on a square grid.



Write the letter of **every** triangle that has a right angle.

1 mark

17 Here is a sorting diagram for numbers.

Write the following numbers in the correct parts of the sorting diagram.

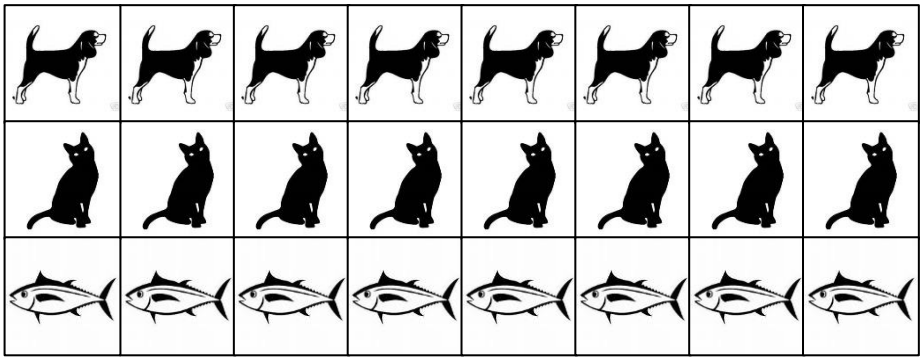
One has been done for you.

16 12 27 ~~15~~ 22

	Multiple of 3	Not a multiple of 3
Multiple of 4		
Not a multiple of 4	15	

2 marks

18 Ben has this sticker sheet.



Her gives $\frac{3}{8}$ of the stickers to Sara.

How many stickers does he give to Sara?

stickers

1 mark

19 Ben's birthday is on 5th April.

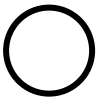
If today's date is 28th March, **how many days** is it until Ben's birthday?

days

1 mark

20 A shop sells cakes.

This pictogram shows how many cakes were sold in a week.

 = 8 cakes

chocolate brownie	◯	◯	◯	◯			
blueberry muffin	◯	◯					
vanilla slice	◯	◯	◯				
carrot cake							

How many chocolate brownies and blueberry muffins were sold **altogether**?

cakes

1 mark

The shop sells 40 carrot cakes in a week.

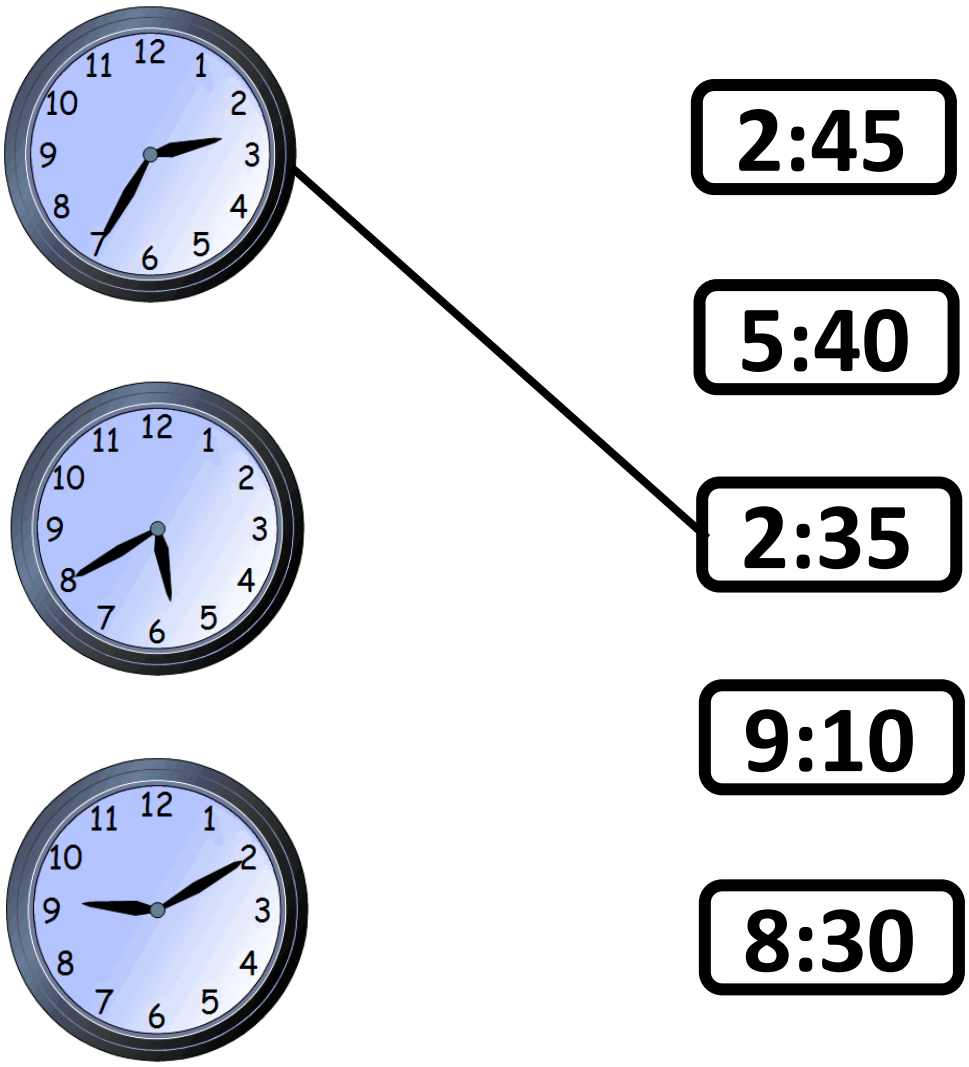
Add this information to the pictogram.

1 mark

21 Here are three clock faces.

Match each clock face to the same time on a digital clock.

One has been done for you.

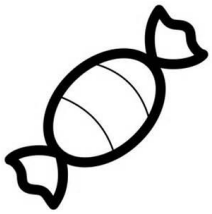


1 mark

22 Ben goes to the sweet shop.

Lollipops cost 4p and strawberry chews cost 3p.

4p



3p

Ben spends 23p on sweets.

How many lollipops and strawberry chews could Ben have bought for 23p?

☐ lollipops and ☐ strawberry chews

☐

1 mark

23 Match the calculations that have the same total.

100 + 40 + 5	100 + 140 + 5
200 + 40 + 5	200 + 220 + 25
300 + 40 + 5	100 + 30 + 15
400 + 40 + 5	200 + 110 + 35

2 marks

24 Sara used this fraction strip to **add** fractions.

Which **fraction addition** could the fraction strip show?

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{5}{7}$$

1 mark

25 These are the start and finish times of a television programme.

Start	10:47am
Finish	11:22am

How long does the television programme last?

minutes

1 mark

26 Sara makes a sequence of numbers starting with 10.
She adds 50 each time.

Sara says, “420 will be in my sequence.”

Explain why Sara is **not** correct

1 mark

27 Identify the missing number in the following calculation.

$$\frac{1}{5} \text{ of } \square = 4$$

1 mark

END OF TEST