

### Question 1

There are 1,480 cars in a car park.

532 cars leave.

How many cars are now in the car park?

1 mark

### Question 2

Maria is asked to write down a prime number between 30 and 50

She writes down 33

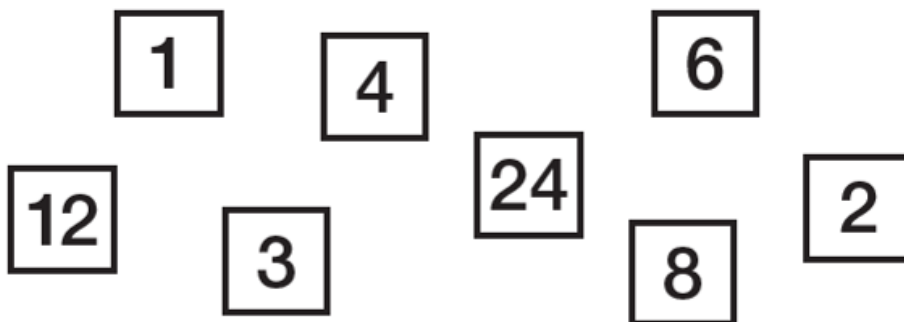
Is she correct?

Explain your answer.

1 mark

### Question 3

Here are **all** the factors of a number.



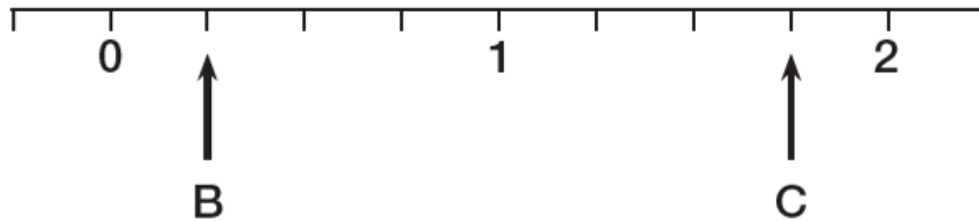
What is the number?

1 mark

## Question 4

Here is a number line.

Two numbers B and C are marked.



Work out the difference B and C.

2 marks

## Question 5

Put these decimals in ascending order.

**0.3, 0.27, 0.2, 0.03, 0.31**

1 mark

## Question 6

Complete the statements using  $<$ ,  $>$  or  $=$

$$1.5 \text{ million } \square 160,000$$

$$-12 \square -2$$

$$4 \text{ hundredths } \square \frac{4}{10}$$

2 marks

## Question 7

Which is bigger?

$$\frac{3}{4} \text{ or } \frac{2}{3}$$

Explain your answer.

2 marks

## Question 8

Each fraction on the left matches to a simplified version on the right.

Match each pair and complete the missing fraction.

$$\frac{9}{30}$$

$$\frac{5}{8}$$

$$\frac{4}{12}$$

$$\frac{\quad}{\quad}$$

$$\frac{15}{24}$$

$$\frac{1}{3}$$

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3 marks

## Question 9

Choose the correct expression to make each statement correct.

$$a \times a \times a$$

$$3a - 12$$

$$a + a + a$$

$$8a$$

$$a + 8$$

$$a^3 = \boxed{\phantom{000}}$$

$$3(a - 4) = \boxed{\phantom{000}}$$

$$8 + a = \boxed{\phantom{000}}$$

3 marks

## Question 10

Find the value of  $x$  in each case.

$$8x = 40$$

1 mark

$$2x - 4 = 10$$

1 mark

## Question 11

Here are the ingredients needed to make 12 cookies.

### Ingredients

Sugar ..... 180g

Butter ..... 225g

Eggs ..... 2

Flour ..... 0.3kg

How much more flour than sugar is used?

1 mark

How much butter is needed for 48 cookies?

1 mark

Mary uses the recipe to make a different amount of cookies.

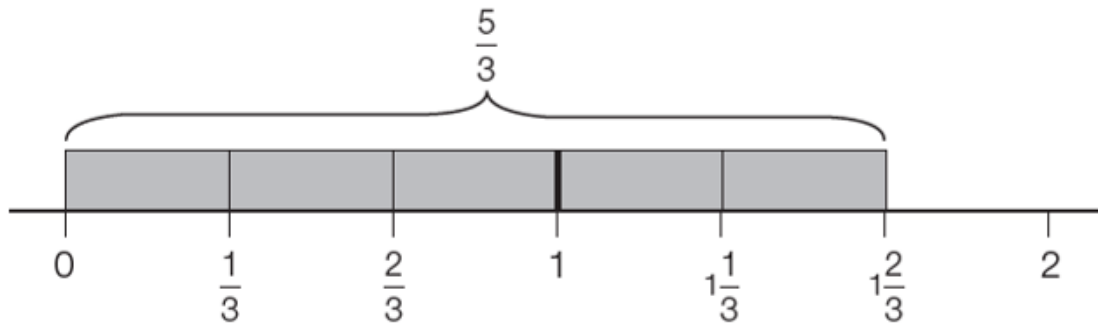
Mary uses 3 eggs.

How many cookies does she make?

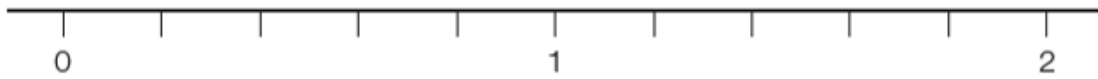
1 mark

## Question 12

The diagram shows that  $\frac{5}{3}$  is equal to  $1\frac{2}{3}$



Show  $\frac{9}{5}$  on the number line below.

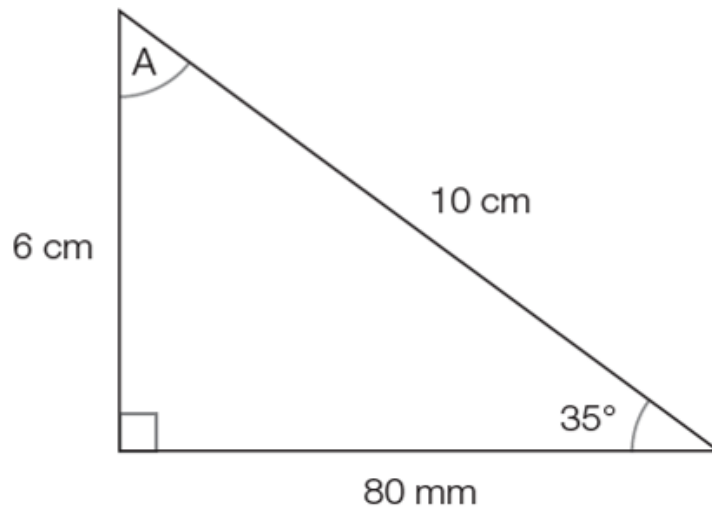


1 mark

Write  $\frac{9}{5}$  as a mixed number.

1 mark

### Question 13



Calculate the size of angle A

2 marks

### Question 14

Here are four cards.

**5**  
tens

**1.5**

**5**  
tenths

**5**

Find the range of the cards.

2 marks

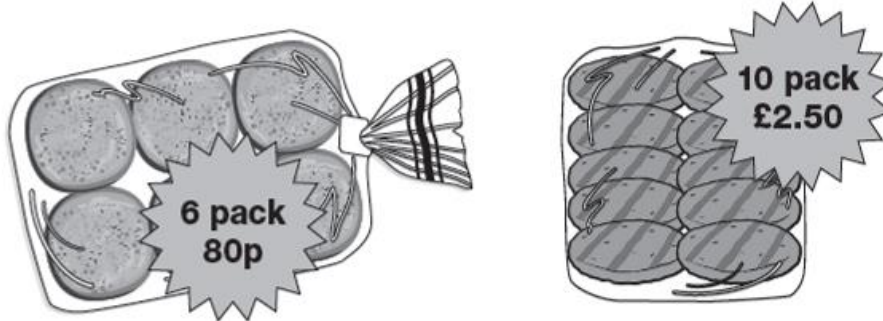


## Question 15

Sara is having a barbecue.

She is going to be cooking burgers.

Sara needs one bread roll for every burger she cooks.



Sara wants to buy exactly the same number of bread rolls and burgers.

What is the smallest number of packs of each Sara needs to buy?

Packs of burgers

Packs of bread rolls

2 marks

How much money does Sara spend?

1 mark

## Question 16

Fill in the boxes to make the statements correct.

$$\frac{3}{10} = \boxed{\phantom{00}}\%$$

$$70\% = \frac{\boxed{\phantom{00}}}{10}$$

$$0.45 = \boxed{\phantom{00}}\%$$

$$1\% = \frac{1}{\boxed{\phantom{00}}}$$

4 marks

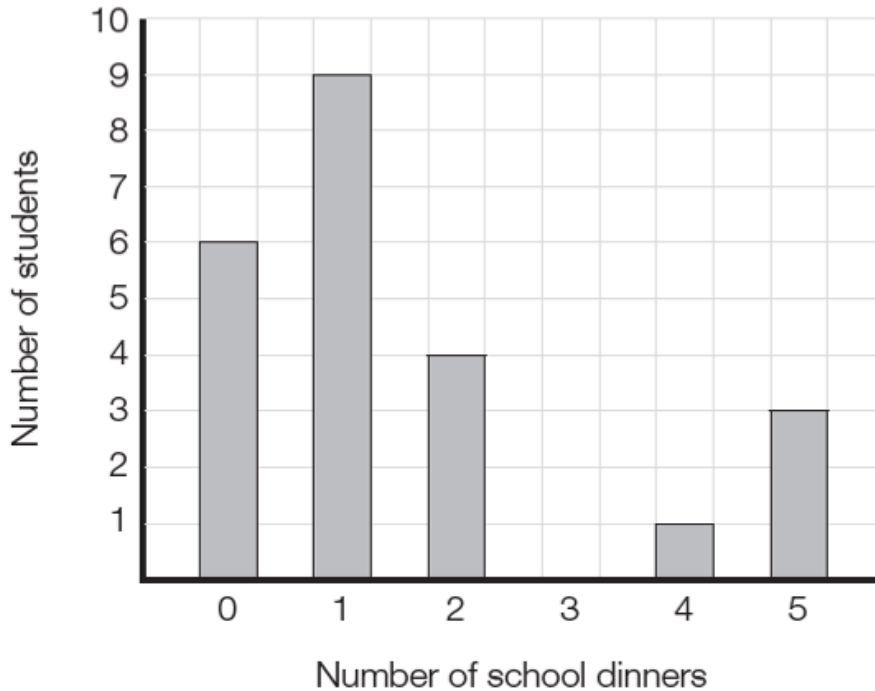
## Question 17

Noah is carrying out a survey.

He asked each member of his class this question,

**“How many school dinners did you have last week?”**

The bar chart shows his results.



There are 30 students in Noah's class.

The remaining students had 3 school dinners in the week.

Complete the bar chart.

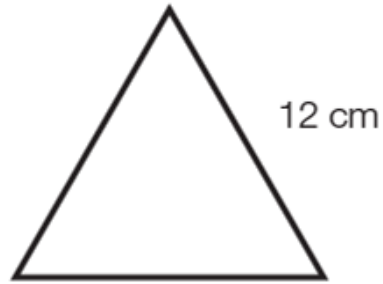
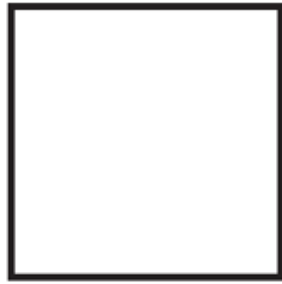
2 marks

How many school dinners did Noah's class eat altogether?

2 marks

## Question 18

Here is a square and an equilateral triangle.



The perimeter of the triangle is **equal to** the perimeter of the square.

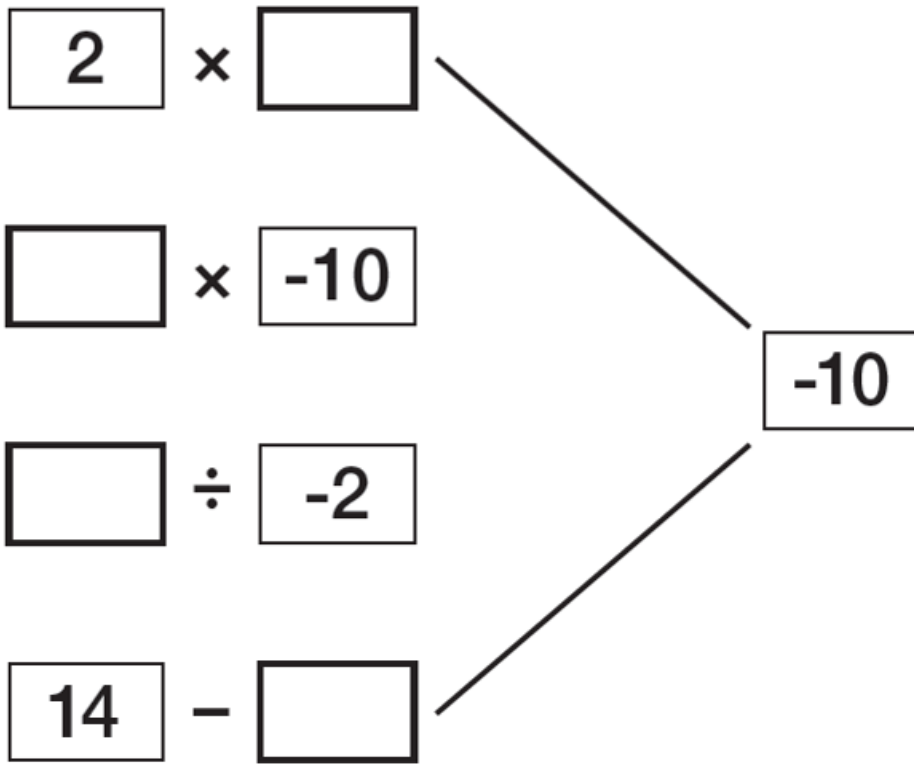
Work out the **area** of the square.

$\text{cm}^2$

3 marks

### Question 19

Fill in the missing boxes so that each calculation is equal to -10



4 marks

Complete the box to make the calculation correct.

$$\square^{-4} + \square \times \square^4 = \square^{24}$$

1 mark

## Question 20

Five numbers have a mean of 12

Here are four of the numbers.

13	12	9	16	?
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What is the fifth number?

2 marks

## Question 21

Samrah sat two maths tests.

Test 1	Test 2
72%	14 out of 20

In which test did Samrah score the highest percentage?

You must show your working.

2 marks

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**END OF TEST. TOTAL MARK IS 50.**

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