

Year 7

Mathematics

Core: Calculator allowed

Time allowed: 45 minutes

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
Teacher						

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1

Put these numbers in order of size, starting with the smallest.

8 -3 2 -5 0

1 mark

What is the median of the numbers?

1 mark

2

The table shows the results of a survey about school dinners.

	Packed Lunch	Hot Lunch	Total
Boys	160		411
Girls	163	254	
Total	323		

How many girls took part in the survey?

1 mark

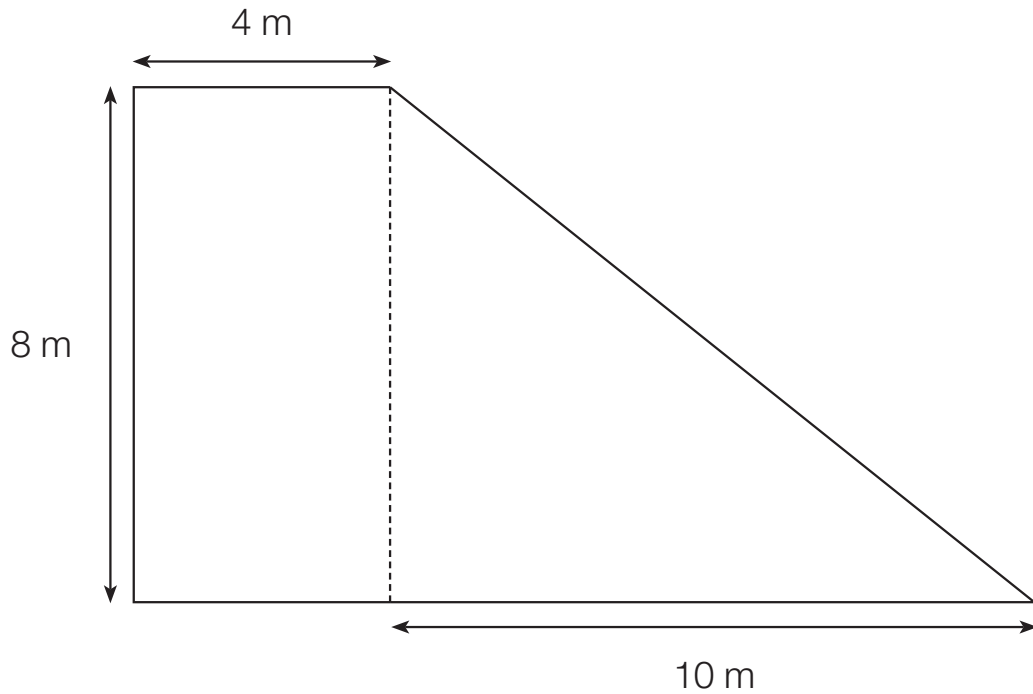
How many boys eat a hot lunch?

1 mark

3

Here is the overhead view of a garden.

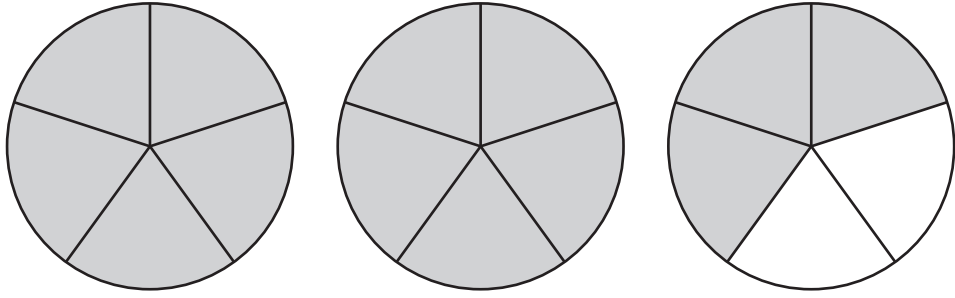
Work out the area of the garden.



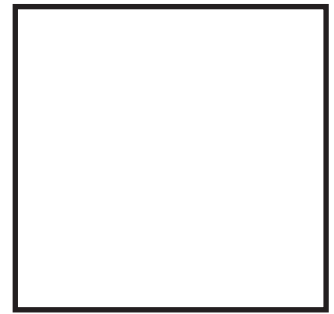
m²

2 marks

4



Convert $\frac{13}{5}$ into a mixed number.



1 mark

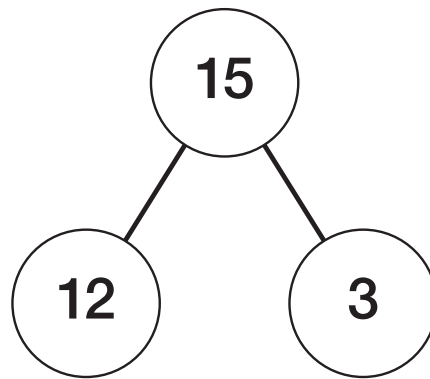
Fill in the missing number.

$$3\frac{1}{4} = \frac{\square}{4}$$

1 mark

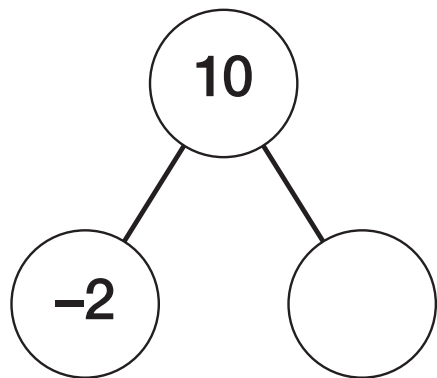
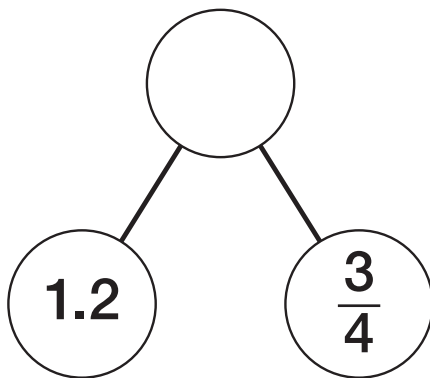
5

Here is a part-whole diagram.



The two numbers at the bottom add to make the number above.

Complete these part-whole diagrams.



2 marks

6

Solve the equations.

$$x + 9 = 4$$

1 mark

$$\frac{y}{4} = -2$$

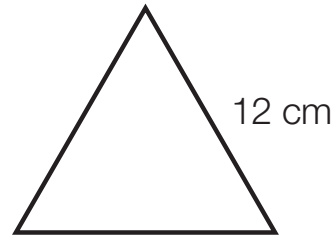
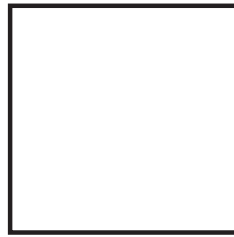
1 mark

$$3z + 1 = 11$$

2 marks

7

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.

cm^2

2 marks

8

Complete the bank statement.

Date	Description	Credit (£)	Debit (£)	Balance (£)
Mar 1	Opening balance			125.47
Mar 3	Shopping Bill		93.20	
Mar 7	Wages	410.80		
Mar 9	Rent			278.07

2 marks

9

Which of these cards is greater in value?

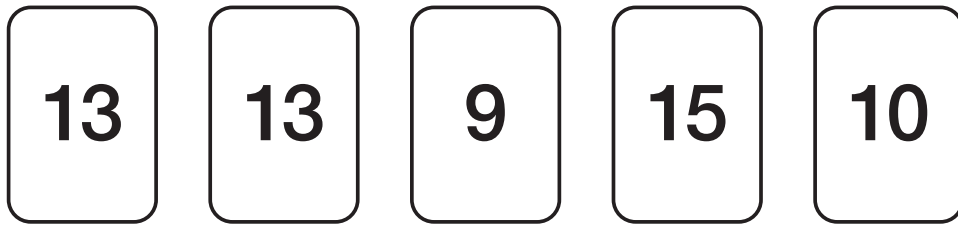
25% of £140**A** **$33\frac{1}{3}\%$ of £90****B**

You must show working to support your answer.

2 marks

10

Here are some numbers.

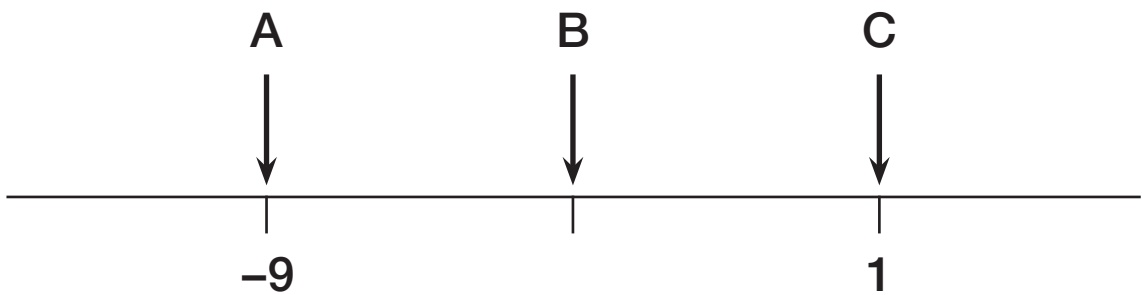


Work out the mean of the numbers.

2 marks

11

Here is a number line.



The distance from A to B is the same as the distance from B to C.

Work out the value of B.

2 marks

$$\frac{4}{8} + \frac{1}{8} = \boxed{}$$

$$1 - \frac{2}{7} = \boxed{}$$

$$\frac{1}{4} + \frac{1}{2} + \frac{3}{4} = \boxed{}$$

3 marks

13Fill in the missing boxes so that each calculation is equal to -10

$$\begin{array}{l} \boxed{2} \times \boxed{} \\ \boxed{} \times \boxed{-20} \\ \boxed{} \div \boxed{-2} \\ \boxed{-14} - \boxed{} \end{array} \begin{array}{l} \diagdown \\ \diagup \end{array} \boxed{-10}$$

3 marks

Complete the box to make the calculation correct.

$$\boxed{-4} + \boxed{} \times \boxed{4} = \boxed{24}$$

1 mark

14

Sunita thinks of a number.

She multiplies her number by 5

She then adds 8

Her final answer is 50

Work out the value of Sunita's original number.

2 marks

15

The first term of a sequence is 5

To find the next term in the sequence, you multiply the previous term by -4

Work out the second and third terms of the sequence.

5, ,

1 mark

Is the sequence linear?

Explain your answer.

1 mark

16Work out $1 + 2 \times 3^2$

Circle your answer.

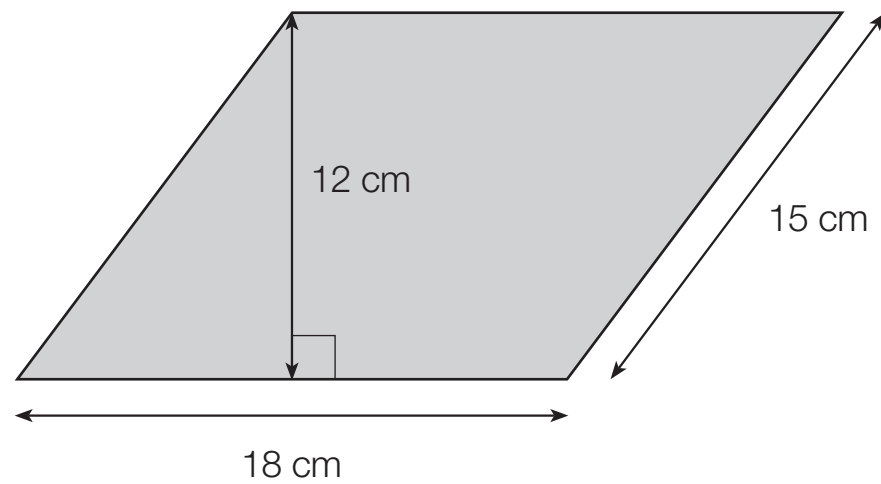
19**37****49****81**

1 mark

17

Calculate the area of the parallelogram.

State the units of your answer.



2 marks

18

The range of a set of numbers is $6\frac{1}{4}$

The smallest number is $-2\frac{3}{8}$

Work out the largest number.

2 marks

END OF TEST