## Summer Assessment

# Year 8

# **Mathematics**

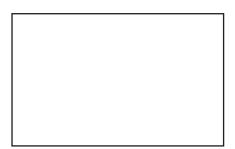
Foundation: No calculator allowed

Time allowed: 45 minutes

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

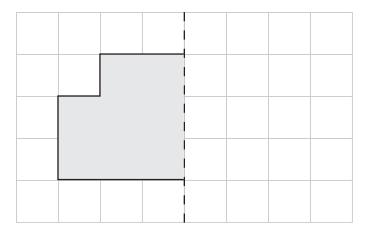
These assessments have been designed by White Rose Maths. For more information, please visit **www.whiterosemaths.com** 





2 marks

Reflect the shape in the mirror line.





$$3(x+5)$$



1 mark

Solve the equation.

$$4x + 20 = 60$$

x =

2 marks

Solve the inequality.

$$30 < 2y - 10$$





The pictogram shows the number of books sold in a shop on Monday to Thursday one week.

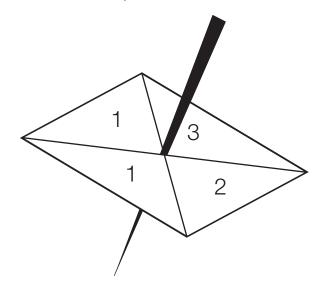
						]	
	Monday		$\bigcirc$	$\bigcirc$			
	Tuesday						
	Wednesday				$\bigcirc$		
	Thursday						
	Friday						
		Key:	) repres	sents 10	) books		
How	many books were sold	on Mon	ıday?				
				L			1 mark
How many books were sold on Tuesday?							
				Г			
				L			 1 mark
							· man

25 books were sold on Friday.

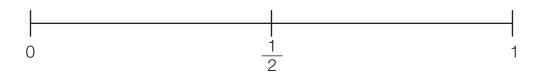
Use this information to complete the pictogram.



Huan spins a four-sided spinner.



On the probability scale, mark with a cross (X) the probability that the spinner lands on 1



1 mark

Write down the probability that the spinner lands on 3

5

Brett has 20 pens and pencils.

They are all red or blue.

Complete the two-way table.

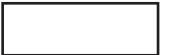
	Red	Blue	Total
Pens		6	
Pencils	4		11
Total			20

2 marks

6

Work out

**2**<sup>3</sup>



1 mark

 $2 + 6 \times 7$ 





2 marks

Jim drives an average of 91.3 miles a week.

Work out an estimate for the number of miles Jim drives in a year.

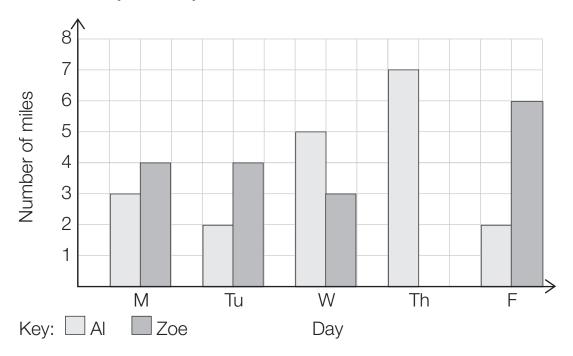
Show your working.





8

Here is a bar chart showing the number of miles Al and Zoe run from Monday to Friday in a week.



How much further does Al run on Wednesday than Zoe?

miles

1 mark

Zoe runs 5 miles on Thursday.

Use this information to complete the bar chart.



What is the modal distance run by Zoe that week?

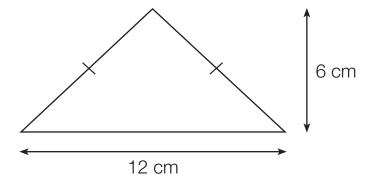
miles

1 mark

Work out the range of the distances run by Al that week.

miles





What is the mathematical name of this triangle?

1 mark

Find the area of the triangle.

cm<sup>2</sup>



Find the 25<sup>th</sup> term of the sequence.



1 mark

The  $n^{\text{th}}$  term of another sequence is  $(n + 5)^2$ 

Which is the 5<sup>th</sup> term of this sequence?

Circle your answer.

10

20

30

100

1 mark

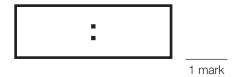
11

Work out the calculation, giving your answer in its simplest form.

$$\frac{3}{5} \times \frac{5}{9}$$



500:200



In a scale drawing 2 cm represents 5 m.

What distance on the scale drawing represents a real-life distance of 20 m?

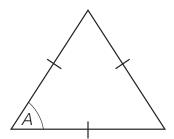




13

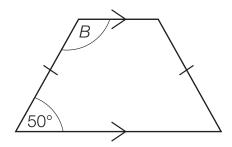
### Work out the size of angle A.

Diagrams not drawn accurately.



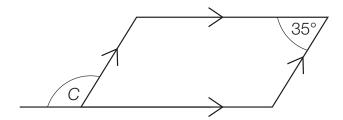
1 mark

Work out the size of angle B.



1 mark

Work out the size of angle C.



2 marks

#### **END OF TEST**



# [BLANK PAGE]

Please do not write on this page.



# [BLANK PAGE]

Please do not write on this page.



# [BLANK PAGE]

Please do not write on this page.

