Summer Assessment



Mathematics

Core: 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**



1.5 million \bigcirc 160,000 -12 \bigcirc -2 4 hundredths \bigcirc $\frac{4}{10}$



60 people were asked what their favourite sport is.

The pie chart shows the results.



How many people like **netball**?



40 people said their favourite sport is football.

How many people like **hockey**?



1 mark



Page 3 of 16

Here is a Venn diagram.





2 marks

Write down the numbers that are in A \cap B.

1 mark



3



Explain why she must have measured incorrectly.

1 mark

Find the value of x.



x =



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?





1 mark



2 marks

7

$$2x + y = 12$$

Work out the values of these expressions.

$$6x + 3y =$$

$$2x + y - 5 =$$

2 marks

6





ABCD is a parallelogram.

DCE is a straight line.

Work out the size of angle BCE.



10

Simplify 6x - x

Circle the correct answer.

6 $6x^2$ 5x 7x

1 mark



Here is some information about 45 shapes.

- There are 18 triangles.
- 30 of the shapes are blue.
- 12 of the quadrilaterals are orange.
- There is an equal amount of blue triangles and blue quadrilaterals.

How many of the triangles are orange?

You may use the table below to help you.

	Triangles	Quadrilaterals	Total
Blue			
Orange			
Total			45

2 marks

Robbie picks one of the shapes at random.

What is the probability the shape is a triangle?



1 mark





Work out the size of the angle labelled x.







XYZ is a triangle.

YZ = 6 cm.

13

XY = 4 cm.

Angle $Y = 110^{\circ}$.

Make an accurate drawing of triangle XYZ.



14
$$x = \frac{4}{5}, y = \frac{2}{3}$$

Which is the larger fraction, x or y?

Explain how you know.

1 mark

Work out the value of x + y, giving your answer as a mixed number.





15



Write 0.075 correct to one significant figure.

1 mark



Use the factors of the numbers to explain why

$45 \times 56 = 5 \times 7 \times 8 \times 9$

1 mark

Use this result to show that

 $45 \times 56 = 63 \times 40$

1 mark







[BLANK PAGE]

Please do not write on this page.

