Year 7

Mathematics

Core: Calculator allowed

Time allowed: 45 minutes

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

This assessment has been designed by White Rose Maths. For more information, please visit **www.whiterosemaths.com**



	7	
м		

Write the number seventeen thousand and forty-eight in figures.

1 mark

Write the value of the 3 in the number 235 061

1 mark

Write the value of the 3 in the number 294.03

1 mark

2

Use your calculator to work out 3096 × 0.43

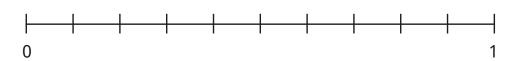
Write all the digits on your calculator display.

1 mark

Round your answer from part a) to the nearest hundred.

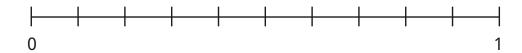


Draw an arrow to show the position of $\frac{6}{10}$ on the number line.



1 mark

Draw an arrow to show the position of $\frac{3}{5}$ on the number line.



1 mark

Write $\frac{3}{5}$ as a decimal.



Work out the output of the function machine when the input is 59



1 mark

Work out the input of the function machine when the output is 127



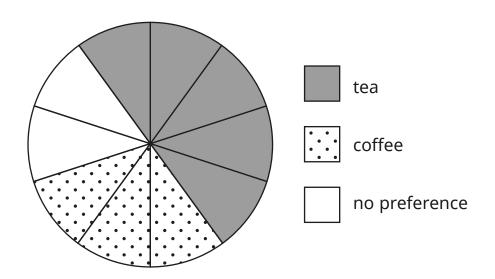
_
_
_

1 mark

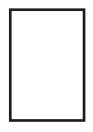
Write the next term in each sequence.

1 mark

A group of people were asked whether they preferred tea or coffee. Their results are shown in the pie chart.



What fraction of people had no preference?



1 mark

What percentage of people preferred coffee?

%

Here are the heights of some trees in centimetres.

Work out the range of the heights.

176.5 98.35 326.9 704.1 574.23

cm

2 marks

R

m	18.9		
27.3			

Complete the facts shown by the bar model.

$$-$$
 = m

2 marks

Work out the value of m.

m =

Tick your answer(s).

- 10, 9.5, 8.9, 8.2 ...
- 40.5, 41, 41.5, 42 ...
- 98, 49, 24.5, 12.25 ...

1 mark

Explain how you know.

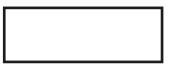
1 mark

10

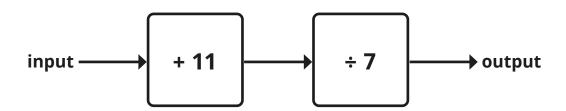
Evaluate each expression when a = 9.5

7*a*

$$25 - \frac{a}{2}$$



Here is a function machine.



Write an expression for the output of the function machine when the input is \boldsymbol{x} .

2 marks

12

Evaluate
$$\frac{3s-13}{19}$$
 when $s = 144$

Give your answer to 1 significant figure.

Tom scored $\frac{152}{200}$ in a test.

Esther scored 71% in the same test.

Who got the better mark in the test?

Circle your answer.

Tom

Esther

You must show your working.

$$57.3 + t = 85.9$$

1 mark

$$\frac{k}{11} = 56$$

$$5q = 2\frac{1}{2}$$

$$15.7x + 4.3y \equiv 20xy$$

Is the statement true or false?

Circle your answer.

True False

Explain your reasoning.

In a group, people wear glasses, contact lenses or neither.

None of the group wear both glasses and contact lenses.

 $\frac{3}{8}$ of the group wear glasses.

12% of the group wear contact lenses.

What proportion of the group don't wear glasses or contact lenses?



3 marks

17

Find the term-to-term rule for the sequence.

$$1\frac{3}{10}$$

$$1\frac{3}{5}$$

$$1\frac{9}{10}$$

$$2\frac{1}{5}$$

•••

2 marks

BLANK PAGE

Please do not write on this page.

Page 14 of 16 © White Rose Maths 2020

BLANK PAGE

Please do not write on this page.

Page 15 of 16 © White Rose Maths 2020

BLANK PAGE

Please do not write on this page.

Page 16 of 16 © White Rose Maths 2020