Autumn Assessment



Mathematics

Calculator allowed Time allowed: 45 minutes

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





1 mark

3

2

Kayden has worked out a solution to

$$\frac{4}{15}$$
 of 210 = $\frac{840}{3150}$

Explain the mistake he has made.

1 mark

What is the correct answer?



The two way table shows the answers when children were asked about which of two subjects they preferred. In total, 750 students were asked.

	Year 9	Year 10	Year 11	Total
Prefers Maths	165			
Prefers Art		64		250
Total		195	320	

Complete the two-way table.

The ratio of girls to boys in a group is 6:11. There are 55 more boys than girls.

How many girls are there in the group?

2 marks

How many people are in the group altogether?

1 mark

5:30

6:42

1 mark

1 mark

8:20

1 mark

5:14

1 mark



Calculate the perimeter of the rectangle

2 marks

Calculate the area of the rectangle

2 marks



$$a = \frac{4}{15}$$
 $b = \frac{3}{4}$

Work out the value of **2***a*.



Work out the value of ab^2 .



2 marks

1 mark

Work out the value of $\frac{b}{a}$



x	-2	-1	0	1	2
У				10	

2 marks

Draw the graph of y = 12 - 2x for values of x from -2 to 2



Tom rolls two fair six-sided dice.

The score he gets is calculated by adding the two dice together.

Complete the sample space diagram to show the possible outcomes.

	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

2 marks

What is the probability of Tom scoring more than 8?

The distance from home to the shopping centre is 8.25 cm on the map.

What is the actual distance from home to the shopping centre?



The actual distance from home to school is 2.5 km.

How far is the distance from home to school on the map?

cm

1 mark

y = 5x - 7

x	-5	-2	0	1	4	10
У						

2 marks

$$y = x^2 - 7$$

x	-5	-2	0	1	4	10
У						

2 marks

y = 11 - 2x

x	-5	-2	0	1	4	10
у						

2 marks

Calculate the missing lengths. Show your working.



4 marks

END OF TEST

BLANK PAGE

Please do not write on this page.

BLANK PAGE

Please do not write on this page.