



Year 8

Mathematics

Foundation: No calculator allowed Time allowed: 45 minutes

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

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1 mark









You may use the diagram to help you.

1 mark



3

Work out



1 mark







2:3 is equivalent to 14:

1 mark





The real length of another bridge is 18 m.

This bridge is drawn to the same scale.

Work out the length of this bridge on the scale diagram.



1 mark

1 mark



Complete the coordinates for two other points that lie on this line.





2 marks



How much does each person receive?

You may use the diagram at the bottom of the page to help you.







This number line shows the calculation $4 \times \frac{2}{3}$



Complete the calculation.

$$4 \times \frac{2}{3} = \frac{3}{3} = \frac{3}{3} = \frac{3}{3}$$

1 mark

You may use the number lines to help you in the remaining parts of this question.

Work out $3 \times \frac{3}{4}$

Give your answer as a mixed number.



2 marks







Use the data to complete the table.



Shoe size	Tally	Frequency
5		
6		
7		
8		

2 marks





I pick a counter from the bag without looking.

What is the probability the counter is blue?

What is the probability the counter is not red?

1 mark

1 mark

What is the ratio of the number of green counters to the number of blue counters in the bag?

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Give your answer in its simplest form.













Dexter did a survey of the number of cold drinks some pupils in his school drank yesterday.

Number	Frequency		
2	4		
3	3		
4	5		
5	8		
6	4		

How many pupils were asked altogether?



How many pupils drank fewer than 4 drinks?



This is a conversion graph between miles and kilometres.



Use the graph to answer the questions.

How many km is the same as 50 miles?

How many miles is the same as 70 km?



1 mark



Complete the two-way table.

	Walk	Bus	Total
Boys	27		
Girls	13		54
Total		60	100

2 marks

One of the children is picked at random.

What is the probability that this child is a girl?

1 mark

What fraction of the girls walk to school?



x	-2	-1	0	1	2	3
У		1			7	

2 marks

On the grid, draw the graph of y = 2x + 3



2 marks



Here is a Venn diagram.



List the members of set B.

1 mark

One number is selected at random from the Venn diagram.

What is the probability this number is a member of set B?

1 mark

END OF TEST





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