Summer Assessment



Mathematics

Core: Calculator allowed

Time allowed: 45 minutes

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
Teacher		<u>.</u>		

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Which hexagon is congruent to A?

1 mark

1 mark

Write a prime number that is greater than 30 but less than 40



Write the first multiple of 8 that is greater than 300

Page 2 of 16



1 mark

1 mark

Write 5.7×10^{-5} in ordinary form.

1 mark

4

3

Here is a fair spinner.



Dexter spins the spinner 720 times.

Estimate the number of times the spinner lands on 2

1 mark





A ×

Work out the area of the shaded region.



2 marks

1 mark





White R©se Maths 8

The probability that a biased coin lands on heads is 0.47 The probability that a biased dice lands on an even number is $\frac{13}{20}$ Samira flips the coin and rolls the dice.

Find the probability that the coin lands on tails and the dice lands on an even number.





Enlarge the rectangle by scale factor 3 centre (1, 1).





Translate shape A by the vector $\binom{-5}{3}$



2 marks



Here are the costs of buying the same tube of crisps from two different shops.



Rob wants to buy 30 tubes of crisps.

At which shop will Rob pay the least amount of money?

Show working to support your answer.



Mr Ellis invests £800 into an account that pays 3.4% compound interest per year.

How much will be in the account after 2 years?

£



Work out the surface area of the triangular prism.





3 marks





 \angle WPZ is 82° greater than \angle ZPX

Calculate the size of angle \angle WPY





A special offer box of breakfast cereal contains 20% extra free. The mass of cereal in the special offer box is 750 g.

What is the mass of cereal in the normal size box?

16





A solid cuboid is made from oak.



The cuboid has a mass of 80 g. The density of oak is 0.67 g/cm³

Work out the height of the cuboid.

Give your answer to three significant figures.



3 marks

END OF TEST



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