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Unit 2: Number, Al	gebra, Geom	etry 1 Foundation Tier
Unit 2: Number, Al	gebra, Geom lator)	Foundation Tier Paper Reference
Unit 2: Number, Al (Non-Calcu	gebra, Geom lator) Morning	Foundation Tier
Unit 2: Number, Al (Non-Calcu Thursday 4 June 2015 – N	gebra, Geom lator) Morning	Foundation Tier Paper Reference

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators must not be used.

Information

- The total mark for this paper is 60
- The marks for each question are shown in brackets
 use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.







Turn over 🕨



GCSE Mathematics 2MB01

Formulae: Foundation Tier

You must not write on this formulae page. Anything you write on this formulae page will gain NO credit.

Area of trapezium = $\frac{1}{2}(a+b)h$





Volume of prism = area of cross section × length







P 4 4 7 8 9 A 0 4 2 0



5 Here is a solid prism.



Diagram **NOT** accurately drawn

The prism is made from centimetre cubes.

(a) Write down the volume of the prism.

Here is a centimetre grid.

(b) On the grid, draw a rectangle with an area of 12 cm^2 .

(2)

(Total for Question 5 is 3 marks)



*6 Kerry uses sticky tape to fasten parcels.

She uses 15 cm of sticky tape to fasten each parcel.

Kerry needs to fasten 25 parcels. She has 300 cm of sticky tape.

Does Kerry have enough sticky tape to fasten all the parcels? You must show your working.

(Total for Question 6 is 3 marks)









9	Penelope	is	going	to	cook	a	chicken.
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She uses this rule to find the cooking time.

cooking time = 20 minutes for each 0.5 kg + 10 minutes

The chicken has a weight of 2 kg.

Penelope wants to finish cooking the chicken at 12 30 pm.

What time should Penelope start cooking the chicken?

(Total for Question 9 is 4 marks)

10 (i) Write down the next two terms in this number sequence.

100 95 90 85

(ii) Explain how you got your answer.

(Total for Question 10 is 2 marks)

11 (a) Work out 30% of 60	
	(2)
(b) Work out $-15 \div -3$	
(c) Work out the value of $4 + 3 \times (9 - 2)$	(1)
(c) Work out the value of $4 + 5 \times (5 - 2)$	
	(1)
(Total for Question 11 is	4 marks)
	11

12 (a) Simplify	4ab - 3ab
(b) Simplify	(1) $x^2 + x^2 + x^2$
(c) Simplify	(1)
	(2) (Total for Question 12 is 4 marks)
12	



14 Here is a graph you can use to change between metres and feet.



An American space rocket is 360 feet tall. A European space rocket is 50 metres tall.

The American space rocket is taller than the European space rocket.

How much taller? You must show your working.

(Total for Question 14 is 3 marks)





ABCD is a straight line. CE = CDAngle $BEC = 50^{\circ}$ Angle $CDE = 35^{\circ}$

Work out the size of the angle marked *x*.

You must give reasons for your answer.

(Total for Question 15 is 4 marks)









P 4 4 7 8 9 A 0 1 8 2 0

19 Gary's motorbike uses petrol.

Gary needs to mix oil with the petrol. He mixes oil and petrol in the ratio 1 : 14 by volume.

Gary is going to ride his motorbike 3000 miles. Each 20 miles he rides uses 1 litre of the oil and petrol mixture.

A 500 ml bottle of oil costs £3.99

Work out the total cost of the bottles of oil Gary needs to buy. (1 litre = 1000 ml)

You must show all your working.

£

(Total for Question 19 is 4 marks)

TOTAL FOR PAPER IS 60 MARKS





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