Write your name here					
Surname	Oth	er names			
Edexcel GCSE	Centre Number	Candidate Number			
Mathematics B Unit 2: Number, Algebra, Geometry 1 (Non-Calculator)					
		Higher Tier			
Friday 12 November 2010 Time: 1 hour 15 minutes	5	Paper Reference 5MB2H/01			
You must have: Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.					

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
 - you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

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 🕨

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6/6/6/6/e2





Answer ALL questions	
Write your answers in the spaces	provided.
You must write down all stages in y	our working.
Grace and Jack share £140 in the ratio 3 : 4	
Work out the amount of money that Jack gets.	
	£
(To	tal for Question 1 is 2 marks)
2 (a) Simplify $4b \times 2c$	
	(1)
(b) Expand $3(2w - 5t)$	
	(2)
(c) Expand and simplify $(x + 7)(x - 2)$	
	(2)







	ind the Lowest Common Multiple (LCM) of 8 and 12
	(Total for Question 5 is 2 marks)
Tł	the diagram shows 3 sides of a regular polygon.
	140° Diagram NOT
	accurately drawn
Ea	ach interior angle of the regular polygon is 140°.
	ach interior angle of the regular polygon is 140°. Vork out the number of sides of the regular polygon.















9 Last year, Jora spent

30% of his salary on rent

 $\frac{2}{5}$ of his salary on entertainment

 $\frac{1}{4}$ of his salary on living expenses.

He saved the rest of his salary.

Jora spent £3600 on living expenses.

Work out how much money he saved.

£

(Total for Question 9 is 5 marks)



(b) Factorise $m^2 + 3m - 40$	(2)
	(2)
	(Total for Question 10 is 4 marks)







12 (a) Simplify m^0	
(b) Simplify $(2x^6y^{-1})^3$	(1)
	(2) (Total for Question 12 is 3 marks)
13 Work out $(2.5 \times 10^9) \div (5 \times 10^3)$. Give your answer in standard form.	
	(Total for Question 13 is 2 marks)







15 Write as a single fraction in its simplest form

$$\frac{2x}{x-1} - \frac{7x-3}{x^2-1}$$

(Total for Question 15 is 4 marks)







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