

GCSE MATHEMATICS AQA | Edexcel | OCR | WJEC

Rearranging Formulae

Please write clearly in block capitals

Forename:	
Surname:	

Materials

For this paper you must have:

mathematical instruments



You can use a calculator.

Instructions

- · Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper.
 These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.

1	Rearrange the following equations to make x the subject.	
•	For all questions, give your answer in its simplest form.	
	r of all quotients, give your answer in its elimptost form.	
1(a)	3x = 8	
		[1 mark]
	Answer	_
1(b)	5x = 2y	
		[1 mark]
	A	
	Answer	_
1(c)	$\frac{5}{x} = 2y$	
	~	[1 mark]
	Answer	_
1(d)	10 - x = 5	
		[1 mark]
	Answer	
	Allower	_
	Turn aver for next amontion	
	Turn over for next question	

2(a)	Rearrange $b - 2x = n$ to make b the subject.	[1 mark]
	Answer	_
2(b)	Rearrange $t^2 = 3x + 1$ to make x the subject.	[1 mark]
	Answer	_
2(c)	Rearrange $3p + 4 = 6 - q$ to make q the subject. Simplify your answer.	[1 mark]
	Answer	_
2(d)	Given $\sqrt{x-2} = 3a$ find x in terms of a	[2 marks]
	Answer	_
	Turn over for next question	

	4	
3(a)	Make S the subject of $2S + 3 = T - 5$	[2 marks]
	Answer	_
3(b)	Make y the subject of $\frac{3+x}{y} = 2x + 1$	[2 marks]
	Answer	_
	GCSE Maths Revision Guide	



- Exam Questions Included
- All exam boards AQA, OCR, Edexcel, WJEC
- Suitable for higher and foundation tiers

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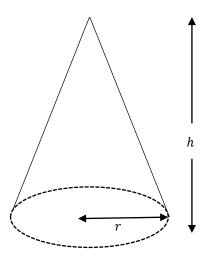


4(a)	Rearrange $m(x + 3) = 2 + x$ to make m the subject.	[1 mark]
	Answer	_
4(b)	Rearrange $2px + 3p = 1 + 2x$ to make p the subject.	[2 marks]
		-
	Answer	_
4(c)	Rearrange $2mx + 10 = 3x + m$ to make x the subject.	[3 marks]
		-
	Answer	-
	Turn over for next question	

5	Rearrange the formula below to make m the subject. $n = \frac{m-4}{m+3}$	
	m+3 Show all your working clearly.	
		[4 marks]
-		-
-		-
-		-
-		-
-		_
	Answer	
6	Rearrange the formula below to make x the subject.	
	$y+1=\frac{2x-10}{x+1}$	
	Show all your working clearly.	[4 manha]
		[4 marks]
-		-
-		_
-		-
-		-
-	Answer	-
	Turn over for next question	

7 The formula for the volume of a cone, $V cm^3$, is shown below

$$V=\frac{1}{3}\pi r^2 h$$



Not drawn accurately

Given that the height of the cone is twice the radius, find r in terms of V.

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End of Questions

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