# GCSE (1 – 9)

## Changing the Subject of a Formula

#### Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

#### Information

- The marks for each Question are shown in brackets
- use this as a guide as to how much time to spend on each Question.

### 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

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(		
1	f = 5c - 8	
	Make <i>c</i> the subject of the formula.	
		(Total for question 1 is 2 marks)
2	u = 4t - 21	
	Make <i>t</i> the subject of the formula.	
	5	
		(Total for question 2 is 2 marks)
3	x = 3y - 2	
	Make <i>y</i> the subject of the formula.	
		(Total for question 3 is 2 marks)

(		
4	m = 5n + 2p	
	Make <i>p</i> the subject of the formula.	
		(Total for question 4 is 2 marks)
5	a = 3c - 2	
	Make <i>c</i> the subject of the formula.	
		(Total for question 5 is 2 marks)
6	P = 3a + 3b	
	Make <i>a</i> the subject of the formula.	
		(Total for question 6 is 2 marks)

Make <i>n</i> the subject of $m = n^2 + 3$	
	(Total for question 7 is 2 marks
	(Total for question 7 is 2 marks
Make <i>a</i> the subject of $v = u + at$	
	(Total for question 8 is 2 marks)
Make <i>a</i> the subject of $v^2 = u^2 + 2as$	
	(Total for question 9 is 2 marks)

10	Make <i>b</i> the subject of $a = \sqrt{\frac{b+2}{5}}$	
		(Total for question 10 is 3 marks)
11	Make <i>b</i> the subject of $A = 3b + 9$	

12 Make x the subject of $y = 3x - 2$	
(Total for que	stion 12 is 2 marks)
1	
<b>13</b> Make x the subject of $y = \frac{1}{2}x + 6$	
(Total for ques	stion 13 is 2 marks)
14 Make x the subject of $y = \frac{2}{5}x - 12$	
14 Make x the subject of $y = \frac{2}{5}x - 12$	
(Total for ques	stion 14 is 3 marks)
(Total for ques	stion 14 is 3 marks)

15	Make <i>x</i> the subject of	5x + 6y + 12 = 0	
			(Total for question 15 is 2 marks)
16	Make x the subject of	$y = x^3 - 5$	
			(Total for question 16 is 2 marks)
17	Malas a the scale set of	$y = \frac{2x+3}{4}$	
17	Make <i>x</i> the subject of	$y = \frac{1}{4}$	
			(Total for question 17 is 3 marks)