



# Education Consultancy Edexcel GCSE Mathematics ALGEBRA: SOLVING EQUATIONS

#### **Materials Required:**

- Pen - HB Pencil - Ruler (in centimetres and millimetres) - Protractor - Compass

#### Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question

- Questions marked with an asterisk (\*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

#### Instructions:

Use a black ink pen to answer all questions
Fill your name in the section below
Answer the questions in the spaces provided
Show your working out for all answers

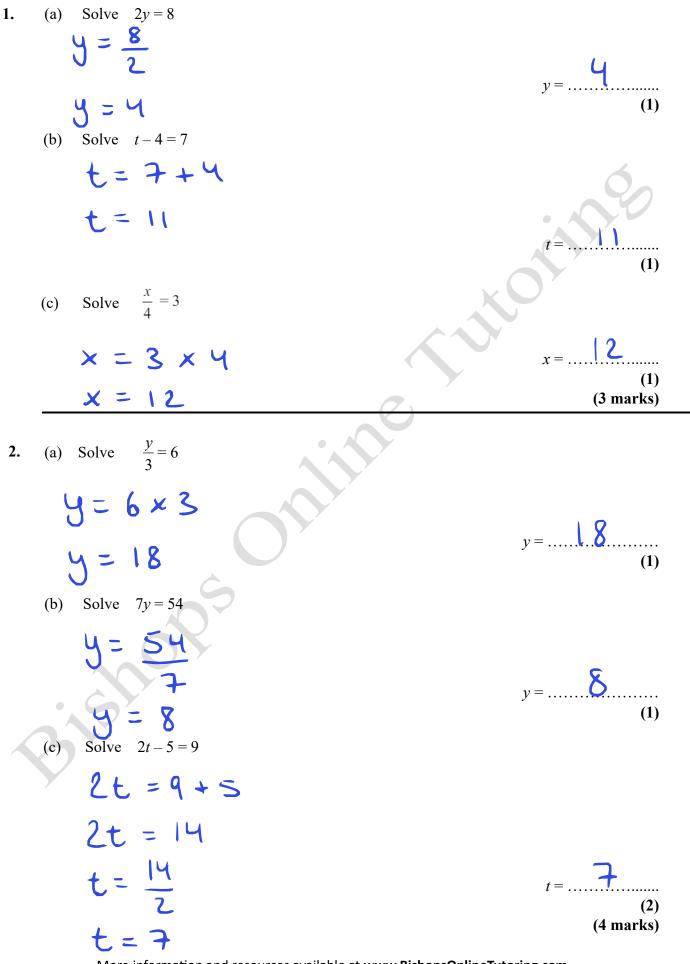
#### Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

## **NO CALCULATOR ALLOWED**

### NAME:

### CHANGE THE SIDE, CHANGE THE SIGN



<b>3.</b> (a)	Solve	4w = 20	
		W = 20	
		Ч	$w = \dots \dots \underbrace{5}_{(1)}$
		W = S	
(b)	Solve	x - 6 = 3 <b>x = 3 + 6</b>	
		$\times = 9$	x =
(c)	Solve	$\frac{y}{3} = 7$	(1)
		$y = 7 \times 3$	v =2.1
		y = 21	$y = \dots \qquad (1)$
		5	(3 marks)
4.	(a) Solve	3x = 12	
		$x = \frac{1}{3}$	<i>x</i> =
		$\mathbf{x} = \mathbf{y}$	(1)
	(b) Solve	y - 7 = 5	
		y=5+7	$y = \dots \qquad (1)$
	(c) Solve	y = 12	
		$3-8$ $t=\frac{-5}{2}$	
	2t=		$t = \dots - \dots - \dots - \dots$ (2)
	(d) Solve		
	2y =	10	<i>y</i> = <b>0</b>
	2y =	20 y=10	(2) (3 marks)

