Name:

Exam Style Questions

Changing the Subject



Equipment needed: Pen

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Check your answers seem right.
- 3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 7



Answers and Video Solutions



1. Make d the subject of



$$e = d + 5$$

Rearrange $t = \frac{w}{2}$ to make w the subject. 2.



3. Rearrange this formula to make c the subject



$$a = c - w$$

Circle your answer.

$$c = a - w$$
 $c = w - a$ $c = aw$ $c = a + w$

$$c = w - a$$

$$c = aw$$

$$c = a + w$$

Make x the subject of



$$y = 3x$$

Circle your answer.

$$x = y + 3$$

$$x = \frac{y}{3}$$

$$x = \frac{3}{y}$$

$$x = y + 3 \qquad x = \frac{y}{3} \qquad x = \frac{3}{y} \qquad x = y - 3$$

(1)

Make w the subject of the formula



$$y = 3w - a$$

w = **(2)**

6. Make w the subject of the formula



$$s = \frac{w}{a}$$

7. v = u + 10t



(a) Work out the value of v when u = 4 and t = 3

٧	=	 											
										(2	2)

(b) Make *u* the subject of the formula

$$v = u + 10t$$

(c) Make t the subject of the formula

$$v = u + 10t$$

8. Given that x + y = 1



What does y equal?

y =	
	(1)

9. Rearrange $y = \frac{k}{x}$ to make x the subject



10. Isaac is rearranging m = 3t - 8 to make t the subject.



$$m = 3t - 8$$

$$-8 - 8$$

$$m - 8 = 3t$$

$$\div 3 \div 3$$

$$\frac{m - 8}{3} = t$$

Explain what mistake Isaac has made.	
	(1)

11. Here is a rectangle.



P is the perimeter of the rectangle.

(a) Show that
$$P = 6x + 2$$

(b) Express x in terms of P

12. Make m the subject of the formula



$$s = \frac{hm}{4}$$

13. Express v in terms of t



$$t = \frac{v}{4} + 1$$

14. Make d the subject of the formula c=4d+5



d =**(2)**

15. Make g the subject of the formula:



$$a = \sqrt{g}$$

g =**(2)**

16. Make *y* the subject of the formula:



$$k = y^3 + a$$

17. C = 4x + 5y



(a) Find the value of C when x = 9 and y = -2

(b) Make x the subject of the formula

(c) Find the value of x when C = 51 and y = 3

18. Given that 3y = 2x



(a) Write y in terms of x

y =	 	 	
			(2)

(b) Write x in terms of y

19. Rearrange 2x - y + 1 = 0 to make x the subject



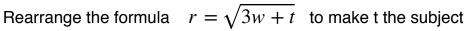
20. Rearrange 8 + c = 3 - a to make a the subject.



21. Make w the subject of $a = \frac{w-2}{6}$



22. F





t =(2)

23. Rosie writes down Pythagoras' Theorem, $a^2 + b^2 = c^2$



Make a the subject

24. Make p the subject of $ac = \frac{\pi}{p}$



25. Rearrange $v^2 = u^2 + 2as$ to make s the subject.



26. Rearrange $w = \sqrt[3]{5y - 8}$ to make y the subject.

