Non Calculator



1. Work out the value of 2x + 2y when x = 6 and y = 7 (2 marks)

2. Work out the value of 7a - 6b when a = 8 and b = 5 (2 marks)

3. p = 12r - 8

Find the value of p when r = 3 (2 marks)

4. s = 0.5t + 4

Find the value of s when t = 0.5 (2 marks)

5. a = 5b = 8

Work out the value of 5a - 2b (2 marks)

6. c = 6 d = -2

Work out the value of 4c + 2d (2 marks)

7. e = 8 f = -4

Work out the value of 10e + 3f (2 marks)

Non Calculator



$$8. g = -6$$
  
 $h = -3$ 

Work out the value of 12g + 3h

(2 marks)

$$9. j = -4$$
 $k = -10$ 

Work out the value of 8j - 4k

$$10. L = 7m - 4n$$

$$m = 15$$

$$n = -3$$

Work out the value of L

(2 marks)

11. 
$$P = 12q + 3r$$

$$q = 10$$
$$r = -10$$

Work out the value of P

(2 marks)

12. 
$$S = t(u - 4)$$

$$t = 7$$

$$u = 4$$

Work out the value of S

(2 marks)

Non Calculator



13. 
$$V = w(5 - x)$$

13. 
$$V = w(5 - x)$$
  $N = 6(5 - (-1))$ 

$$w = 6$$

$$x = -2$$

$$w = 6$$
  
 $x = -2$   
Work out the value of  $V$ 

(2 marks)

$$14. X = 20yz$$

$$y = 3$$

$$z = 2$$

Work out the value of X

(2 marks)

15. 
$$a = 6$$

$$b = -4$$

$$c = 2$$

Work out the value of  $b^2 - 4ac$ 

(2 marks)

16. 
$$a = 5$$

$$b = 8$$

$$h = 4$$

$$h = 4$$
/ork out the value of  $A$ 

Work out the value of  $A = \frac{1}{2}(a + b)h$   $\frac{1}{2}(3)4$   $\frac{1}{2}(52) = \frac{1}{2}6$ 

$$17. y = mx + c$$

$$m = -3$$

$$x = 8$$

$$c = -4$$

Work out the value of y

(2 marks)

#### Non Calculator



- 18. The cost of hiring a campervan is given by the formula C=150+25d where d is the number days the campervan is hired
- (a) Find the cost of hiring the campervan for 4 days.
- (b) Work out the number of days the campervan was hired if the total bill was £325

(a) 
$$C = \sqrt{6} + 2\Gamma(4)$$

$$= 270$$

$$= 270$$

$$\sqrt{3} = 270$$

$$\sqrt{3$$

20. 
$$s = ut + \frac{1}{2}at^{2}$$
 $u = -5$ 
 $t = 6$ 
 $a = 8$ 

Work out the value of  $s$ 

$$= -30 + 4(36)$$

$$= -30 + 4(36)$$

$$= -30 + 444$$

$$= -30 + 444$$

$$= -30 + 444$$

$$= -30 + 444$$

$$= -30 + 444$$

Total / 42 marks