QT Substitution 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. $a = 5$ b = 8 Work out the value of $5a - 2b$	(2 marks)

6. c = 6d = -2Work out the value of 4c + 2d

7.e = 8f = -4Work out the value of 10e + 3f(2 marks)

(2 marks)

QT Substitution 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 $8j - 4k$	(2 marks)
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 <i>P</i>	(2 marks)
12. $S = t(u - 4)$	
t = 7 u = 4 Work out the value of <i>S</i>	(2 marks)

QT Substitution Non Calculator	(* * * * * * * * * * * * * * * * * * *
13. $V = w(5 - x)$	
w = 6 x = -2 Work out the value of <i>V</i>	(2 marks)
14. X = 20yz	
y = 3 z = 2 Work out the value of <i>X</i>	(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 Work out the value of $A = \frac{1}{2}(a + b)h$	(2 marks)
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

(4 marks)

$$19. s = ut + \frac{1}{2}at^{2}$$

$$u = 3$$

$$t = 6$$

$$a = 4$$
Work out the value of s

(2 marks)

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

Work out the value of s

(2 marks)

Total