1.	P = 3n $n = 6$	
	(a) Work out the value of <i>P</i> .	
		$P = \dots (1)$
	Q = 2c + d $c = 3$ $d = 2$	
	(b) Work out the value of Q .	
		Q = (2) (Total 3 marks)
2.	p = 5 $r = 2$	
	(a) Work out the value of	
	4p + 3r	
		(2)
	n is an even number.	
	(b) What type of number is $n + 1$?	
		(1) (Total 3 marks)

3.	<i>y</i> =	5x -	3
	•		

Find the value of y when x = 9

 $y = \dots$ (2) (Total 2 marks)

4.
$$P = 4k - 10$$

k = 7

(a) Work out the value of k.

.....(2)

$$y = 4n - 3d$$

$$n = 2$$

$$d = 5$$

(b) Work out the value of y.

.....(2)

(Total 4 marks)

5.
$$v = u + 10t$$

Work out the value of v when

$$u = 10 \text{ and } t = 7$$

 $v = \dots$ (Total 2 marks)

6.



You can work out the amount of medicine, c ml, to give to a child by using the formula

$$c = \frac{ma}{150}$$

m is the age of the child, in months. *a* is an adult dose, in m*l*.

A child is 30 months old. An adult's dose is 40 ml.

Work out the amount of medicine you can give to the child.

••••	• • • • •	 •••••	••••		•••••	1	n
			(T	ota	1 2 n	nark	(\mathbf{S})

7. $V = 3b + 2b^2$

Find the value of V when b = 4

(Total 2 marks)

8.	(a) Work out the value of $3p + 4q$ when $p = 5$ and $q = -2$	
	(2) (b) Given that $y = 4x - 3$, work out the value of x when $y = 11$	
9.	x = (3) (Total 5 marks) Work out the value of $5x + 1$ when $x = -3$	
10.	(2) (Total 2 marks) (a) Work out the value of $3x-4y$ when $x=3$ and $y=2$	
	(b) Work out the value of $\frac{p(q-3)}{4}$ when $p=2$ and $q=-7$	

11.	S = 2p + 3q
	p = -4
	q = 5

(a) Work out the value of *S*.

$$S =$$

$$T = 2m + 30$$

$$T = 40$$

(b) Work out the value of m.

$$m =$$
 (2) (Total 4 marks)

12. A = 4bc

$$A = 100$$
$$b = 2$$

Work out the value of c.

$$c = \dots$$
 (2) (Total 2 marks)

13.	(a) Work out the value of $2a + ay$ when $a = 5$ and $y = -3$		
			(2)
	(b)	Work out the value of $5t^2 - 7$ when $t = 4$	
			(3)
			(Total 5 marks)
14.	<i>A</i> =	$=\frac{h(x+10)}{2}$	
	<i>A</i> =	27	
	$h = \frac{1}{2}$	4	
	Wor	rk out the value of x	
		\boldsymbol{x}	=
			(Total 3 marks)

15.	$h = 5t^2 + 2$	
(i)	Work out the value of h when $t = -2$	
		(3)
(ii	i) Work out a value of t when $h = 47$	
		(3) (Total 5 marks)
16.	$V = 3b + 2b^2$	
Find t	the value of V when $b = -4$	(3)

(Total 3 marks)