1 $c = 4$
$d = 7$

(a) Work out the value of $3c + 2d$

.....

(2)

$p = -6$
$m = -2$

(b) Work out the value of $2p^2 + 3m$

.....

(2)

There are 6 eggs in a small box of eggs.
There are 12 eggs in a large box of eggs.

Alex buys g small boxes of eggs and h large boxes of eggs.
He buys a total of T eggs.

(c) Write down a formula for T in terms of g and h.

.....

(3)

(Total for Question 1 is 7 marks)

2 $P = 7w - 5y$

(c) Find the value of P when $w = 2$ and $y = 4$

$P =$ .....

(2)

$Q = 2u^2 - 5$

(d) Find the value of Q when $u = -3$

$Q =$ .....

(2)

(Total for Question 2 is 4 marks)

3 $P = 2a + 3b$

(b) Work out the value of P when $a = 5$ and $b = 8$

$P =$ .....

(2)

$P = 2a + 3b$

(c) Work out the value of a when $P = 16$ and $b = 20$

$a =$ .....

(3)

(Total for Question 3 is 5 marks)

4 $w = 5y^2 - y^3$

(a) Work out the value of w when $y = -2$

$w =$ .....

(2)

(Total for Question 4 is 2 marks)

5 $t = ab - c$

$a = 1.5$ $b = 2.4$ $c = -5.6$

(b) Work out the value of t.

$t =$ .....

(2)

(Total for Question 5 is 2 marks)

6 $A = 8x - 3y$

(b) Work out the value of A when $x = 5$ and $y = 4$

$A =$ .....

(2)

(Total for Question 6 is 2 marks)

7 $Q = 5v^2 - w$

(d) Work out the value of Q when $v = \frac{1}{2}$ and $w = \frac{1}{4}$

$Q =$ .....

(2)

(Total for Question 7 is 2 marks)

8 $A = 3b - 5c$

(b) Work out the value of A when $b = 12$ and $c = 4$

$A =$ .....

(2)

(Total for Question 8 is 2 marks)

9 $T = 5m - 6n$

(c) Work out the value of T when $m = 4.2$ and $n = -2.5$

$T =$ .....

(2)

(Total for Question 9 is 2 marks)

10 $p = t - ac$

$t = 18$
$a = -3$
$c = 5$

(a) Work out the value of p

$p =$ .....

(2)

(Total for Question 10 is 2 marks)

11 $T = 5g + 4r$

(c) Work out the value of r when $T = 46$ and $g = 17$

$r =$ .....

(3)

$P = m^2 - 4c$

(d) Work out the value of P when $m = -5$ and $c = 3$

$P =$ .....

(2)

(Total for Question 11 is 5 marks)

12 (c) Work out the value of $x^2 + 5y$ when $x = -3$ and $y = 2$

.....

(2)

(Total for Question 12 is 2 marks)