8 Rearrange this equation to make x the subject.

$$y = 7x + 2$$

$x =$ ..... [2]

7 Make x the subject of this formula.

$$2y = 5x - 7$$

$x =$ ..... [2]

11 $$y = \frac{w^2}{2}$$

Rearrange the formula to make w the subject.

$w =$ ..... [1]

8 $s = \frac{1}{2}at^2$

(a) Work out the value of s when $a = 0.9$ and $t = 4$.

$s =$ ..... [1]

(b) Rearrange the formula to find t in terms of s and a.

$t =$ ..... [2]

19 Make y the subject of the formula.

$$h^2 = x^2 + 2y^2$$

$y =$ ..... [3]

10 Rearrange the formula to make x the subject.

$$y(x+4) = 2$$

$x =$ ..... [2]

12 Rearrange this formula to make R the subject.

$$P = \frac{2(Q+3R)}{5}$$

$R =$ ..... [3]

8 $A = 2\pi rh + 3\pi r^2$

Rearrange the formula to write h in terms of π, r and A.

$h =$ ..... [2]

14 $y = 2w^2 - x$

Rearrange the formula to make w the subject.

$w =$ ..... [3]

7 $J = h^3 + k^3$

(a) Find the value of J when $h = 3$ and $k = 4$.

$J =$ ..... [2]

(b) Rearrange the formula to write h in terms of J and k.

$h =$ ..... [2]

10 $J = m(k^2 + h^2)$

Rearrange the formula to make h the subject.

$h =$ ..... [3]

11 $P = M(g^2 + h^2)$

(a) Find the value of P when $M = 100$, $g = 3$ and $h = 4.5$.

$P =$ ..... [2]

(b) Rearrange the formula to write g in terms of P, M and h.

$g =$ ..... [3]

15 $y = \sqrt{u^2 x}$

(a) Find the value of y when $u = 7$ and $x = 25$.

$y =$ ..... [2]

(b) Rearrange the formula to write x in terms of u and y.

$x =$ ..... [2]

15 $T = \sqrt{3d - e}$

Rearrange the formula to make d the subject.

$d =$ ..... [3]

10 Rearrange the formula to write x in terms of a and y.

$$y = \sqrt{x^2 + 2a^2}$$

$x =$ ..... [3]

15 $m = 2p + \sqrt{\frac{x}{y}}$

Make x the subject of this formula.

$x =$ ..... [3]

15 Rearrange the equation to make x the subject.

$$A+4y=A(2-3x)$$

$x =$ ..... [3]

(b) Rearrange the formula $V=2x^3-3y^3$ to make y the subject.

$y =$ ..... [3]

14 $A=P(1+x)^3$

Rearrange the formula to write x in terms of A and P.

$x =$ ..... [3]

11 $y = \dfrac{2}{x+3}$

Rearrange the formula to make x the subject.

$x =$ ..... [3]

(d) Make x the subject of the formula. $x = \dfrac{3+x}{y}$

$x =$ ..... [3]

14 Make x the subject of $A = \dfrac{3(x+y)}{x}$.

$x =$ ..... [3]

18 Make x the subject of the formula.

$$c = \frac{3x}{2x-5}$$

$x =$ ..... [4]

17 Rearrange the formula to make m the subject.

$$R = \frac{2(m-k)}{m}$$

$m =$ ..... [4]

14 Make x the subject of the formula.

$$\frac{p}{x} = \frac{q}{x-2}$$

$x =$ ..... [3]

12 Rearrange this formula to make x the subject.

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

$x =$ ..... [3]

15 Make h the subject of the formula $2mh = g(1-h)$.

$h =$ ..... [4]

(e) Make x the subject of the formula.

$$y = \frac{5(p-2x)}{x}$$

$x =$ ..... [4]

18 Make t the subject of the formula.

$$2 = \frac{m(1-t)}{pt}$$

$t =$ ..... [4]

17 $y = \dfrac{3x-2}{1-x}$

Make x the subject of the formula.

$x =$ ..... [4]

9 Rearrange this equation to make x the subject.

$$\frac{a}{2x-3} = \frac{b}{5x}$$

$x =$ ..... [3]