

1 $v = 3 - 5t$

Make t the subject of the formula.

$t = \dots\dots\dots$ [2]

[Total: 2]

2 Work out the value of $\frac{mk^3}{\sqrt{3}}$ when $m = 4$ and $k = 7$.

$\dots\dots\dots$ [2]

[Total: 2]

- 3** Solve the simultaneous equations.
You must show all your working.

$$4x - 3y = 26$$

$$5x + 6y = 13$$

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots [3]$$

[Total: 3]

4 $s = \frac{1}{2} at^2$

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

$$t = \dots\dots\dots [2]$$

[Total: 2]

- 5** Make m the subject of the formula.
 $mc^2 - 2k = mg$

$$m = \dots\dots\dots [3]$$

[Total: 3]

- 6 Make x the subject of the formula.

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

$$x = \dots\dots\dots [4]$$

[Total: 4]

- 7 Solve the simultaneous equations.

$$x - 3y = 7$$

$$2x - 3y = 11$$

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots [2]$$

[Total: 2]

- 8** Solve the simultaneous equations.
You must show all your working.

$$x + 2y = 12$$

$$5x + y^2 = 39$$

$$x = \dots\dots\dots y = \dots\dots\dots$$

$$x = \dots\dots\dots y = \dots\dots\dots [5]$$

[Total: 5]

- 9 Solve the simultaneous equations.
You must show all your working.

$$\begin{aligned}3x + y &= 11 \\ x^2 - 2y &= 18\end{aligned}$$

.....

..... [5]

[Total: 5]

- 10 Solve the simultaneous equations.
You must show all your working.

$$\frac{3x}{2} + 5y = 5$$
$$4x - 3y = 46$$

[4]

- 11 Solve the simultaneous equations.

$$5t - 2w = 19$$
$$3t + 2w = 5$$

[2]

- 12 Solve the simultaneous equations.
You must show all your working.

$$4y + 3x = 13$$
$$y = x^2 - 18$$

[5]