



Changing the Subject **Home Learning**

1. Make x the subject of the formula:

a. $y = 2x + p$

e. $p + q = ax - z$

b. $p = \frac{x}{q}$

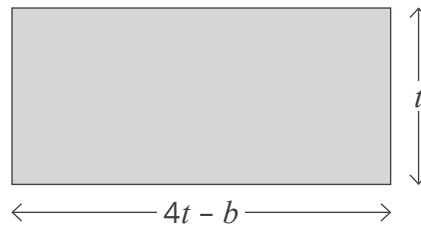
f. $p = \sqrt{x}$

c. $z = ax + y$

g. $A = \pi x^2$

d. $r = \frac{px}{y}$

2. The diagram shows a rectangle. All measurements are given in centimetres.



a. Write down an equation for the perimeter, P , of the rectangle.

b. Rearrange your formula to make t the subject of the formula.

3. A car is travelling at $(x + 2)$ miles per hour for t hours.

a. Write down an equation for the distance travelled, d .

b. Rearrange your formula to make x the subject.



4. Make x the subject of the formula:

a. $4x + p = ax + z$

b. $3(x - z) = px + r$

c. $a(y - x) = b(y + x)$

d. $y = \frac{x+2}{x-1}$

Challenge:

Make x the subject of the formula:

$$\frac{1}{x} + \frac{1}{y} = \frac{1}{z}$$
