Using Formulae

1 The length of the longer side of a rectangle is x cm, which is 5 cm greater than the length of its shorter side. Its perimeter p cm is given by:

$$p = 4x - 10$$

(a) Find p when $x = 15$.

(b) Find p when $x = 28$.

(c) Find the length of the rectangle if the perimeter is 46 cm.

(d) Find the length of the rectangle if the perimeter is 95 cm.

2 Use the formula $A = 72 + \dfrac{t}{2}$ to calculate the value of A:

(a) when $t = 12$

$A =$

(b) when $t = 38$

$A =$

(c) when $t = 75$

$A =$

(d) when $t = 18.7$

$A =$