Worksheet 9

Using Formulae

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.

50 cm

(b) Find p when x = 28.

102 cm

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

14 cm

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

26.25 cm

(a) when t = 12

(b) when t = 38

(c) when t = 75

(d) when t = 18.7

$$A = 81.35$$