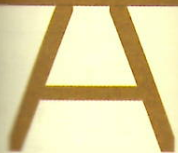


Be able to solve an equation



$$4x - 6 = 6$$

$$4x = 12$$

$$x = 3$$

4.



Tony has £8 and David has £ $x$ . Together they have £17.

- Make up an equation using this information.
- Now solve it to determine how much David has.

5. There were  $x$  marbles in a bag. 7 were removed. I then found that there were 14 left.

- Make up an equation about the marbles.
- Now solve it to determine how many there were to begin with.



6. For each of the following :- (i) make an equation and (ii) solve it.

a



Chad has  $x$  pencils in his case. Harry has 14 pencils. Altogether they have 31 pencils.

- Eliose has to cycle 2.3 kilometres to school. Franz has to walk  $y$  kilometres. They travel a total of 3.1 kilometres.



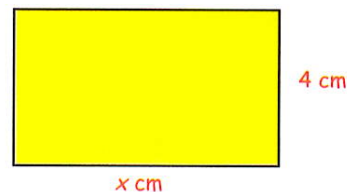
c



Tom cycles from his house to the park then to the beach, a total of 34 kilometres. From his house to the park is 20 km. The park to the beach is  $p$  kilometres.

7. To find the area of a rectangle you **multiply** its length by its breadth.

- Write down an expression for the area of this rectangle in terms of  $x$ .
- If the actual area is  $24 \text{ cm}^2$ ,
  - write down an equation involving  $x$ ,
  - solve it to find the value of  $x$ .



8. Find the value of  $x$  in each case :-

a  $\frac{1}{2}x = 7$

b  $\frac{1}{3}x = 9$

c  $\frac{1}{4}x = 20$

d  $\frac{1}{5}x = 10$

e  $\frac{1}{10}x = 5$

f  $\frac{1}{8}x = 2$

g  $\frac{1}{6}x = 11$

h  $\frac{1}{5}x = 20$

i  $\frac{1}{2}x = 3\frac{1}{2}$

j  $\frac{1}{2}x + 1 = 6$

k  $\frac{1}{3}x - 4 = 2$

l  $\frac{1}{4}x - 2 = 1$

m  $\frac{1}{2}x - 2 = 1$

n  $\frac{1}{5}x + 1 = 3$

o  $\frac{1}{10}x - 10 = 10$ .