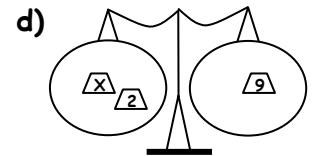
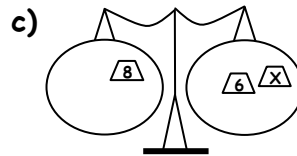
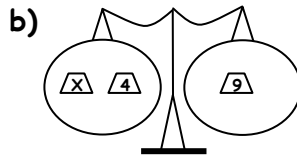
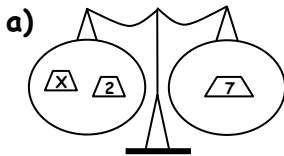


# Balancing the Scales

## TASK 1

1) Work the value of the X weight on each of the scales below.



2) Now solve these written equations showing your working out.

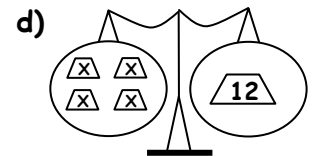
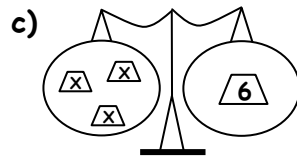
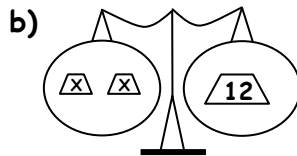
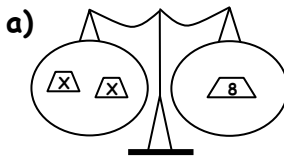
a)  $X + 4 = 6$

b)  $9 + X = 13$

c)  $20 = X + 7$

d)  $6 + X = 15$

3) Work out the value on an X on each of these sets of scales.



4) Now solve these written equations showing your working out.

a)  $2X = 10$

b)  $2X = 14$

c)  $3X = 15$

d)  $4X = 20$

## TASK 2

Show the following equations as a set of scales. Then solve them.

a)  $X + 9 = 21$

b)  $5 + X = 15$

c)  $2X = 18$

d)  $4X = 40$

## TASK 3

Solve the following equations showing your working out.

1a)  $X + 11 = 20$

b)  $2X = 16$

c)  $X + 7 = 30$

d)  $5X = 15$

2a)  $3X = 21$

b)  $12 + X = 31$

c)  $6X = 18$

d)  $16 + X = 51$

3a)  $X - 4 = 6$

b)  $X - 5 = 13$

c)  $7 - X = 4$

d)  $6 - X = 1$

4a)  $X \div 2 = 6$

b)  $X \div 3 = 2$

c)  $X \div 2 = 7$

d)  $X \div 4 = 5$

5a)  $X - 14 = 6$

b)  $19 - X = 8$

c)  $X \div 7 = 6$

d)  $X \div 9 = 5$