Your Turn

1. Simplify the following ratios:

    a. 4:10

       2:5

    b. 21:14

       3:2

    c. 9:12

       3:4

    d. 50:20

       5:2

    e. 3:9:6

       1:3:2

    f. 20:35:15

       4:7:3

2. A shelter contains 8 cats and 20 dogs. Write the ratio of cats to dogs, giving your answer in its simplest form.

   8:20 = 2:5

3. A box contains blue sweets and orange sweets. There are 30 sweets altogether. 6 of the sweets are blue. Write the ratio of blue sweets to orange sweets in its simplest form.

   30 – 6 = 24 orange sweets

   6:24 = 1:4

4. Write the following ratios in their simplest form. Remember to convert them into the same units first!

    a. 4m:80cm

       4m = 400cm

       400:80 = 5:1

    b. 70p:£2

       £2 = 200p

       70:200 = 7:20

    c. 6 days:2 weeks

       2 weeks = 14 days

       6:14 = 3:7

    d. 3kg:400g

       3kg = 3000g

       3000:400 = 15:2

    e. 2.5km:900m

       2.5km = 2500m

       2500:900 = 25:9

    f. 6 hours:20 minutes

       6 hours = 360 minutes

       360:20 = 18:1

Challenge

The ratio of red beads to blue beads is 3:5. Given that there are 12 red beads, work out how many blue beads there are.

12 ÷ 3 = 4

5 × 4 = 20 blue beads

BEYOND MATHS