# Ratio worksheet

## Mathematics for A-level Science

Practice your understanding

Simplify the following ratios (Example 6:4 = 3:2):

1. 120:50
2. 64:24
3. 13:52
4. 100:10 000
5. 24:72
6. 18:90
7. 56:88
8. 36:144

Find by scaling the ratio.

1. 1:2 = 4:*x*
2. 8:3 = *x*:9
3. 25:10 = *x*:2
4. *x*:160 = 2:8
5. 49:*x* = 2:4
6. 58.5:18 = *x*:4
7. A toy is made from red bricks and yellow bricks.

Number of red bricks: Number of yellow bricks = 5:2.

There are 210 more red bricks than yellow bricks.

How many red bricks are in the toy?

1. There are 100 balls in a bag. The balls are red, blue, green or white. The ratio of blue to red is 5:1. There are twice as many blue as green. of the balls are green.

How many white balls are in the bag?

1. One day, 460 people visit a zoo. 280 are adults. The ratio of women to men is 4:3.

180 are children. of them are boys. Jane says that altogether there were more females visiting the zoo.

Show that she is correct.