

Challenge I

1. Simplify these ratios.

- a** 4:2 **b** 8:6 **c** 8:12 **d** 5:15
e 16:24 **f** 18:27 **g** 30:72 **h** 33:6
i 21:56 **j** 35:21 **k** 21:28:35 **l** 49:63:14

2. Each pair of ratios is equivalent. Work out the values of the letters.

- a** 1:2 = 3: **b** 7:21 = :42 **c** 2:5 = :25
d 15: = 45:18 **e** :9 = 40:72 **f** 6:18 = 5:
g 1:2:3 = 5:: **h** 3:5:6 = :30: **i** :3:7 = 16:12:

Challenge II

1. Write each ratio in its simplest form.

- a** 2cm:5m **b** 8mm:12cm
c 25g:3kg **d** 6mm:5m
e 4mm:1km **f** 15kg:2tonnes
g 125g:1tonne **h** 20s:5min **i** 5s:2hours
j 150mm:15km **k** 10min:3days **l** 40ml:10litres

Remember to change the quantities into the same units first.

Sharing in a given ratio

1) Jenny and Sharon share 14 toffees in the ratio 2:5. Draw how many each gets in the boxes:

Jenny	Sharon	Total for Jenny:
		Total for Sharon:

2) Mike and Neil share 16 mints in the ratio 1:3. Draw how many each gets in the boxes:

Mike	Neil	Total for Mike:
		Total for Neil: