St. Gregory's High School

Thinking schools; Thinking nation

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

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:1 tonne	**h** 20s:5min	**i** 5s:2 hours
j 150mm:15km	**k** 10min:3 days	**l** 40ml:10 litres

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: _____

LIVEWORKSHEETS