GCSE FOUNDATION · REVISION MAT 2

Multiplicative relationships

1 Ann has 15 stickers. Cal has 60 stickers.

(a) How many times as many stickers does Cal have?

(b) Write the ratio Ann : Cal in its simplest form.

2 A is $\frac{3}{4}$ of B.

$B = 36$

Work out the value of A.

3 Ola earns £240 a week. Pip earns £400 a week.

Show that Ola earns $\frac{3}{5}$ of what Pip earns.

4 A drink is made from water and squash in the ratio 4 : 1.

Is this the same as saying the amount of squash is $\frac{1}{4}$ of the amount of water?

Explain your answer.

5 The length of a rectangle is 3 times its width.

The perimeter of the rectangle is 64 cm.

Work out the area of the rectangle.

6 Ann has 2 times as many marbles as Bob.

Cal has $\frac{1}{2}$ as many marbles as Ann.

They have 52 marbles altogether.

How many marbles does each person have?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Multiplicative relationships

1 (a) **4** times

(b) **1 : 4**

2 $36 \div 4 \times 3 = \mathbf{27}$

3 $\frac{240}{400} = \frac{\mathbf{3}}{\mathbf{5}}$ ✓

4 **Yes**. For every 4 parts of water there is 1 part of squash, so squash = $\frac{1}{4}$ × water.

5 Width w, length $3w$: $2(w + 3w) = 8w = 64$

$w = 8$ cm, length = 24 cm

Area = **192 cm^2**

6 Bob x, Ann $2x$, Cal $1x$

$4x = 52$, so $x = 13$

Bob **13**, Ann **26**, Cal **13**