GCSE HIGHER · REVISION MAT 2

Ratios and fractions

1 Red : white = 5 : 3.

What fraction are red?

2 $\frac{2}{7}$ of the sweets are lemon.

The rest are orange.

Write lemon : orange.

3 Explain why 'twice as many cats as dogs' means cats : dogs = 2 : 1.

4 A 2.4 m rope is cut into two pieces.

One piece is 3 times as long as the other.

How long is the shorter piece?

5 $p : q = 3 : 2$

Show that $p = 1.5q$.

6 The number of girls is $\frac{4}{5}$ of the number of boys.

There are 27 pupils.

How many girls are there?

7 $x : y = 5 : 4$

Show that x is 25% more than y.

8 A rectangle's length is $\frac{5}{3}$ of its width.

Its perimeter is 64 cm.

Find its area.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Ratios and fractions

1 $\frac{5}{8}$

2 **2 : 5**

3 **For every dog there are 2 cats.**

4 4 parts = 2.4 m

0.6 m

5 $2p = 3q$

$p = \frac{3}{2}q = 1.5q$

6 g : b = 4 : 5

9 parts = 27

12 girls

7 $x = \frac{5}{4}y = 1.25y$

25% more

8 l : w = 5 : 3

2 × 8 parts = 64, 1 part = 4

20 cm by 12 cm

240 cm²