GCSE HIGHER · REVISION MAT 5

Ratios and fractions

1 Sunny : rainy days = 3 : 4.

What fraction are rainy?

2 $\frac{3}{10}$ of a group are left-handed.

Write left-handed : right-handed.

3 Show that 'one third as many' gives a ratio of 1 : 3.

4 A is 5 times B.

A − B = 48.

Find A.

5 $a = 0.4b$

Show that $a : b = 2 : 5$.

6 Mo has $\frac{3}{5}$ as much money as Noor.

Noor has £60 more than Mo.

How much do they have altogether?

7 $a : b = 1 : 1$

Explain why each is 50% of the total.

8 A rectangle's width is $\frac{3}{4}$ of its length.

Its diagonal is 25 cm.

Find its area.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Ratios and fractions

1 $\frac{4}{7}$

2 **3 : 7**

3 **For every 3 of one there is 1 of the other.**

4 4 parts = 48

A = 60

5 $a = \frac{2}{5}b$

$a : b = 2 : 5$

6 m : n = 3 : 5

2 parts = £60

£240

7 ***a* = *b*, so each is one of two equal parts.**

8 w : l = 3 : 4, diagonal 5 parts

1 part = 5 cm

15 cm by 20 cm

300 cm²