GCSE HIGHER · REVISION MAT 1

Ratios and fractions

1 Boys : girls = 2 : 3.

What fraction of the class are girls?

2 $\frac{3}{8}$ of a class are boys.

Write boys : girls.

3 A is 3 times B.

Explain why A : B = 3 : 1.

4 Ann has 4 times as many stickers as Ben.

They have 85 altogether.

How many does Ann have?

5 x is $\frac{2}{5}$ of y.

Show that $x : y = 2 : 5$.

6 There are $\frac{2}{3}$ as many red counters as blue, and half as many green as blue.

There are 26 counters.

How many are blue?

7 $a : b = 4 : 9$

Show that a is about 44.4% of b.

8 Jo has 75% as much money as Kay.

Kay gives Jo £10, and now they have the same.

How much do they have altogether?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Ratios and fractions

1 $\frac{3}{5}$

2 3 : 5

3 For every 1 of B there are 3 of A.

4 5 parts = 85

68

5 $x = \frac{2}{5}y$

Multiply by 5: $5x = 2y$, so $x : y = 2 : 5$

6 r : b : g = $\frac{2}{3} : 1 : \frac{1}{2} = 4 : 6 : 3$

13 parts = 26

12 blue

7 $\frac{4}{9} = 0.444...$

≈ 44.4%

8 0.75K + 10 = K − 10

K = 80, J = 60

£140