GCSE HIGHER · REVISION MAT 4

Ratios and fractions

1 Blue : green = 7 : 2.

What fraction are green?

2 $\frac{1}{4}$ of the class walk to school.

Write walkers : non-walkers.

3 Explain why $a : b = 1 : 4$ means b is four times a.

4 Kim earns 1.5 times as much as Lee.

Together they earn £1250 a week.

How much does Kim earn?

5 $m : n = 2 : 7$

Show that $n = 3.5m$.

6 The second of three numbers is double the first.

The third is triple the second.

The numbers add up to 90.

Find them.

7 $x : y = 3 : 8$

Show that x is 37.5% of y.

8 In a drink, the juice is $\frac{2}{3}$ of the water.

150 ml of juice is added and now juice and water are equal.

What was the volume at the start?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Ratios and fractions

1 $\frac{2}{9}$

2 **1 : 3**

3 **For every 1 of *a* there are 4 of *b*.**

4 K : L = 3 : 2

5 parts = 1250

£750

5 $2n = 7m$

$n = 3.5m$

6 1 : 2 : 6

9 parts = 90

10, 20, 60

7 $\frac{3}{8} = 0.375$

37.5%

8 $\frac{2}{3}w + 150 = w$

$w = 450$, $j = 300$

750 ml

Mr&Mrs MATHS