GCSE FOUNDATION · REVISION MAT 3

Ratios and fractions

1 A bag has cats and dogs sweets in the ratio 2 : 9.

What fraction of the sweets are cats?

2 $\frac{4}{9}$ of a group are red. The rest are green.

Write the ratio of red to green.

3 The ratio of squash to water is 1 : 2.

Liv says $\frac{1}{2}$ are squash.

Explain why Liv is wrong.

4 $y = 4x$

Show that the ratio x : y is always 1 : 4

5 Ali and Ben share some money.

Ali gets $\frac{3}{10}$ of the money.

Ben gets £48 more than Ali.

How much money is shared?

6 In a box, cats : dogs = 5 : 2 and dogs : rabbits = 3 : 4

What fraction of the box are rabbits?

Mr&Mrs MATHS

1 2 + 9 = 11 parts

$\frac{2}{11}$

2 Green: $\frac{5}{9}$

4 : 5

3 The total is 1 + 2 = 3 parts, not 2.

$\frac{1}{3}$ are squash

ANSWERS · REVISION MAT 3

Ratios and fractions

4 $x : y = x : 4x$

Divide both by x: **1 : 4** ✓

5 Ben gets $\frac{7}{10}$

Difference = $\frac{4}{10}$ = £48

Total = **£120**

6 cats : dogs : rabbits = 15 : 6 : 8

$\frac{8}{29}$

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