GCSE FOUNDATION · REVISION MAT 1

Ratios and fractions

1 A bag has red and blue sweets in the ratio 3 : 5.

What fraction of the sweets are red?

2 $\frac{2}{7}$ of a group are boys. The rest are girls.

Write the ratio of boys to girls.

3 The ratio of cats to dogs is 2 : 3.

Jo says $\frac{2}{3}$ are cats.

Explain why Jo is wrong.

4 $y = 3x$

Show that the ratio x : y is always 1 : 3

5 Ali and Ben share some money.

Ali gets $\frac{3}{8}$ of the money.

Ben gets £40 more than Ali.

How much money is shared?

6 In a box, apples : oranges = 3 : 4 and oranges : bananas = 2 : 5

What fraction of the box are bananas?

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1 3 + 5 = 8 parts

$\frac{3}{8}$

2 Girls: $\frac{5}{7}$

2 : 5

3 The total is 2 + 3 = 5 parts, not 3.

$\frac{2}{5}$ are cats

ANSWERS · REVISION MAT 1

Ratios and fractions

4 $x : y = x : 3x$

Divide both by x: **1 : 3** ✓

5 Ben gets $\frac{5}{8}$

Difference = $\frac{2}{8}$ = £40

Total = **£160**

6 apples : oranges : bananas = 3 : 4 : 10

$\frac{10}{17}$

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