GCSE HIGHER · REVISION MAT 4

Simplifying ratios

1 Simplify

$14 : 35$

2 Simplify

$0.25 : 0.75 : 1$

3 Show that 25p : £2 = 1 : 8.

4 A box has 36 red, 24 blue and 12 green counters.

Write red : blue : green in its simplest form.

What fraction are red?

5 Write 3 : 4 in the form 1 : n.

6 Two cylinders have the same height.

Their radii are 3 cm and 6 cm.

Find the ratio of their volumes.

7 Simplify

$2\frac{1}{2} : 3\frac{3}{4}$

8 Simplify

$(4x + 8) : (x^2 + 5x + 6)$

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Simplifying ratios

1 **2 : 5**

2 **1 : 3 : 4**

3 25 : 200

1 : 8

4 **3 : 2 : 1**

$\frac{3}{6} = \frac{1}{2}$

5 **1 : 1.33 (1 : $\frac{4}{3}$)**

6 $\pi \times 9h : \pi \times 36h$

1 : 4

7 $\frac{10}{4} : \frac{15}{4}$

2 : 3

8 $4(x + 2) : (x + 2)(x + 3)$

4 : (x + 3)

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