GCSE HIGHER · REVISION MAT 1

Simplifying ratios

1 Simplify

$24 : 36$

2 Simplify

$1.5 : 2.5$

3 Show that 40 cm : 2 m = 1 : 5.

4 A class has 12 boys and 18 girls.

Write boys : girls in its simplest form.

3 boys leave. Find the new ratio.

5 Write 5 : 8 in the form 1 : n.

6 A rectangle is 2.4 m by 80 cm.

Find the ratio length : width.

Find the ratio of its area to the area of a square of side 80 cm.

7 Simplify

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

8 Simplify

$(3x + 6) : (x^2 + 2x)$

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Simplifying ratios

1 **2 : 3**

2 15 : 25

3 : 5

3 40 cm : 200 cm

1 : 5

4 **2 : 3**

9 : 18

1 : 2

5 Divide by 5

1 : 1.6

6 240 : 80

3 : 1

Areas 19 200 : 6400

3 : 1

7 Multiply by 12

8 : 9

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

$3 : x$