GCSE FOUNDATION · REVISION MAT 5

# Simplifying ratios

**1** Write each ratio in its simplest form.

(a) 27 : 63

(b) 64 : 48 : 80

**2** Write 80 p : £3.20 in its simplest form.

**3** Que writes 24 : 36 in its simplest form as 2 : 3.

Ria writes it as 6 : 9.

Who is right? Explain your answer.

**4** Show that 0.8 : 2 can be written as 2 : 5

**5** School A has 40 teachers and 680 students.

In school B, the ratio of
teachers to students is 1 : 16.

Which school has more students per teacher?

**6** A bag has red and blue
counters in the ratio 3 : 8.

5 red counters are added.

The ratio is now 1 : 2.

How many counters were in the bag at the start?

Mr&Mrs MATHS

**1** (a) **3 : 7**

(b) **4 : 3 : 5**

**2** Use the same units first.

**1 : 4**

**3** **Que**. 6 : 9 can still be divided by 3, so it is not in its simplest form.

ANSWERS · REVISION MAT 5

# Simplifying ratios

**4** Multiply both parts so there are no decimals, then simplify:

0.8 : 2 = 2 : 5 ✓

**5** School A: 680 ÷ 40 = 17, so 1 : 17

**School A** has more students per teacher.

**6** Red $3x$, blue $8x$

$2(3x + 5) = 1 \times 8x$ gives $x = 5$

Start: 15 red, 40 blue = **55**