GCSE FOUNDATION · REVISION MAT 3

Simplifying ratios

1 Write each ratio in its simplest form.

(a) 35 : 56

(b) 24 : 40 : 56

2 Write 45 min : 2 hours in its simplest form.

3 Max writes 16 : 24 in its simplest form as 2 : 3.

Nia writes it as 4 : 6.

Who is right? Explain your answer.

4 Show that 0.6 : 1.5 can be written as 2 : 5

5 School A has 32 teachers and 512 students.

In school B, the ratio of
teachers to students is 1 : 15.

Which school has more students per teacher?

6 A bag has red and blue
counters in the ratio 1 : 3.

8 red counters are added.

The ratio is now 1 : 1.

How many counters were in the bag at the start?

Mr&Mrs MATHS

1 (a) **5 : 8**

(b) **3 : 5 : 7**

2 Use the same units first.

3 : 8

3 **Max**. 4 : 6 can still be divided by 2, so it is not in its simplest form.

ANSWERS · REVISION MAT 3

Simplifying ratios

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

0.6 : 1.5 = 2 : 5 ✓

5 School A: 512 ÷ 32 = 16, so 1 : 16

School A has more students per teacher.

6 Red 1x, blue 3x

$1(1x + 8) = 1 \times 3x$ gives $x = 4$

Start: 4 red, 12 blue = **16**

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