GCSE FOUNDATION · REVISION MAT 5

Terminating decimals and fractions

1 Write each decimal as a fraction in its simplest form.

(a) 0.24 (b) 0.04

2 Write each fraction as a decimal.

(a) $\frac{13}{20}$ (b) $\frac{3}{8}$

3 Owen says,

"$\frac{1}{6} = 0.16$"

Explain why Owen is wrong.

4 Show that

$0.2 + \frac{5}{8} = \frac{33}{40}$

5 Write these numbers in order of size.
Start with the smallest.

$\frac{3}{16}$, 0.2, $\frac{9}{50}$, 0.19

6 Jug A holds 0.55 litres of water.

Jug B holds $\frac{9}{16}$ litre of water.

Which jug holds more water?
By how many millilitres?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Terminating decimals and fractions

1 (a) $\frac{6}{25}$ (b) $\frac{1}{25}$

2 (a) **0.65** (b) **0.375**

3 $1 \div 6 =$ **0.1666...**

The digits recur, so the decimal does not stop at 0.16.

4 $\frac{5}{8} = 0.625$

$0.2 + 0.625 = 0.825 = \frac{33}{40}$ ✓

5 As decimals: 0.1875, 0.2, 0.18, 0.19

$\frac{9}{50}$, $\frac{3}{16}$, 0.19, 0.2

6 $\frac{9}{16} = 0.5625$ litres

Jug **B** holds more, by **12.5 ml**

Mr&Mrs MATHS