GCSE FOUNDATION · REVISION MAT 3

Terminating decimals and fractions

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

(a) 0.15 (b) 0.375

2 Write each fraction as a decimal.

(a) $\frac{11}{50}$ (b) $\frac{7}{8}$

3 Milo says,

"$\frac{1}{9} = 0.1$"

Explain why Milo is wrong.

4 Show that

$0.15 + \frac{3}{4} = \frac{9}{10}$

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

$\frac{1}{8}$, 0.12, $\frac{3}{20}$, 0.13

6 Jug A holds 0.85 litres of water.

Jug B holds $\frac{7}{8}$ litre of water.

Which jug holds more water?
By how many millilitres?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Terminating decimals and fractions

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

2 (a) **0.22** (b) **0.875**

3 $1 \div 9 =$ **0.111...**

The digits recur, so the decimal does not stop at 0.1.

4 $\frac{3}{4} = 0.75$

$0.15 + 0.75 = 0.9 = \frac{9}{10}$ ✓

5 As decimals: 0.125, 0.12, 0.15, 0.13

0.12, $\frac{1}{8}$, 0.13, $\frac{3}{20}$

6 $\frac{7}{8} = 0.875$ litres

Jug **B** holds more, by **25 ml**

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