GCSE HIGHER · REVISION MAT 5

Calculating with fractions and decimals

1 Work out

$$\frac{7}{9} \times \frac{3}{14}$$

2 Work out

$$0.84 \div 0.07$$

3 Explain why dividing by $\frac{1}{2}$ doubles a number.

4 Fence posts are placed every 2.4 m along a 36 m fence, including both ends.

How many posts are needed?

5 Show that

$$(-3)^2 - (-2)^3 = 17$$

6 Jo walks $\frac{3}{4}$ km in $\frac{1}{6}$ of an hour.

Find her speed in km/h.

7 Show that

$$1 \div \left(1 + \frac{1}{3}\right) = \frac{3}{4}$$

8 A tank loses $\frac{1}{5}$ of its water each day.

After 2 days it holds 32 litres.

How much did it hold at the start?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Calculating with fractions and decimals

1 $\frac{21}{126}$

$\frac{1}{6}$

2 $84 \div 7$

12

3 **There are two halves in every 1, so $x \div \frac{1}{2} = 2x$.**

4 $36 \div 2.4 = 15$ gaps

16 posts

5 $9 - (-8)$

= 17

6 $\frac{3}{4} \div \frac{1}{6} = \frac{3}{4} \times 6$

4.5 km/h

7 $1 \div \frac{4}{3}$

$= \frac{3}{4}$

8 Each day: $\times \frac{4}{5}$

$\frac{16}{25}$ of start = 32

50 litres

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