GCSE HIGHER · REVISION MAT 2

Calculating with fractions and decimals

1 Work out

$$\frac{4}{5} - \frac{1}{3}$$

2 Work out

$$0.3 \times 0.04$$

3 Explain why

$$-3 \times -4 \times -2$$

is negative.

4 Sam pays £2.45 for 3.5 kg of potatoes.

Find the cost per kg.

5 Show that

$$3\frac{1}{5} \div 1\frac{3}{5} = 2$$

6 A tank is $\frac{2}{5}$ full.

After 36 litres are added it is $\frac{7}{10}$ full.

Find the capacity of the tank.

7 Show that

$$(-2)^3 - 3 \times (-4)^2 = -56$$

8 Find the fraction exactly halfway between $\frac{3}{8}$ and $\frac{5}{12}$.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Calculating with fractions and decimals

1 $\frac{12}{15} - \frac{5}{15}$

$\frac{7}{15}$

2 0.012

3 $-3 \times -4 = 12$

$12 \times -2 = -24$: an odd number of negatives gives a negative.

4 $2.45 \div 3.5 = 24.5 \div 35$

70p per kg

5 $\frac{16}{5} \div \frac{8}{5} = \frac{16}{8}$

$= 2$

6 $\frac{7}{10} - \frac{4}{10} = \frac{3}{10}$

$\frac{3}{10}$ of capacity = 36

120 litres

7 $-8 - 3 \times 16$

$= -56$

8 $\frac{9}{24}$ and $\frac{10}{24}$

$= \frac{18}{48}$ and $\frac{20}{48}$

$\frac{19}{48}$

Mr&Mrs MATHS