GCSE HIGHER · REVISION MAT 4

Calculating with fractions and decimals

1 Work out

$$2\frac{3}{5} + 1\frac{1}{2}$$

2 Work out

$$23.4 \times 1.5$$

3 Explain why

8×0.5 is smaller than 8.

4 Petrol costs 138.9p per litre.

Ella buys 42 litres.

How much does she pay?

5 Show that

$$\frac{3}{8} \text{ of } 2\frac{2}{3} = 1$$

6 At 6 am the temperature is –8 °C.

It rises by 3.5 °C every hour.

At what time does it reach 6 °C?

7 Write these in order, smallest first.

$$\frac{5}{8},\ 0.6,\ \frac{2}{3},\ 0.65$$

8 Write as a single fraction.

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32}$$

What happens if the pattern continues?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Calculating with fractions and decimals

1 $\frac{26}{10} + \frac{15}{10} = \frac{41}{10}$

$4\frac{1}{10}$

2 23.4 + 11.7

35.1

3 **Multiplying by 0.5 is the same as halving, so the answer is less than 8.**

4 138.9 × 42 = 5833.8p

£58.34

5 $\frac{3}{8} \times \frac{8}{3}$

= 1

6 Rise of 14 °C

14 ÷ 3.5 = 4 hours

10 am

7 0.625, 0.6, 0.667, 0.65

0.6, $\frac{5}{8}$, 0.65, $\frac{2}{3}$

8 **$\frac{31}{32}$**

The total gets closer and closer to 1.

Mr&Mrs MATHS