GCSE FOUNDATION · REVISION MAT 4

Estimation

1 By rounding each number to 1 significant figure, estimate the value of

213×8.87

2 Estimate the value of

$$\frac{6.18 + 3.87}{0.48}$$

3 Will estimates 4.3×6.2 as $4 \times 6 = 24$

Will the exact answer be bigger or smaller than 24? Explain your answer.

4 Show that 8.13×59.4 is approximately 480.

5 Petrol costs £1.61 per litre.

Lucy fills her car with 18.9 litres. She has £30.

Use estimation to decide whether she has enough money.

6 268 students are going on a trip.

Each coach has 41 seats.

(a) Estimate the number of coaches needed.

(b) How many coaches are actually needed? Explain why your estimate might not be enough.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Estimation

1 $200 \times 9 = \mathbf{1800}$

2 $\frac{6 + 4}{0.5} = \mathbf{20}$

3 **Bigger**. Both numbers were rounded down.

(Exact: 26.66)

4 $8 \times 60 = 480$ ✓

5 $1.6 \times 20 = 32$

Estimate £32 is more than £30, so **probably not**.

(Exact: £30.43)

6 (a) $300 \div 40 = 7.5 \rightarrow$ about **8**

(b) $268 \div 41 = 6.5$, so **7** coaches.
Rounding can hide students left over.

Mr&Mrs MATHS