GCSE FOUNDATION · REVISION MAT 2

# Estimation

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

$61.4 \times 2.93$

**2** Estimate the value of

$$\frac{587 + 312}{3.04}$$

**3** Uma estimates $7.7 \times 4.6$ as $8 \times 5 = 40$

Will the exact answer be bigger or smaller than 40? Explain your answer.

**4** Show that $9.87 \times 3.12$ is approximately 30.

**5** Petrol costs £1.52 per litre.

Lucy fills her car with 28.7 litres. She has £50.

Use estimation to decide whether she has enough money.

**6** 187 students are going on a trip.

Each coach has 52 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 2

# Estimation

**1** $60 \times 3 = \mathbf{180}$

**2** $\frac{600 + 300}{3} = \mathbf{300}$

**3** **Smaller**. Both numbers were rounded up.

(Exact: 35.42)

**4** $10 \times 3 = 30$ ✓

**5** $1.5 \times 30 = 45$

Estimate £45, so **yes**.

(Exact: £43.62)

**6** (a) $200 \div 50 = 4 \rightarrow$ about **4**

(b) $187 \div 52 = 3.6$, so **4** coaches.
Rounding can hide students left over.

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