# Estimating calculations

**1**

Estimate the value. Round each number to 1 significant figure first.

$3.92 \times 48.6$

$4 \times \square$

Answer _____

**2**

Estimate the value. Round each number to 1 significant figure first.

$8.14 \times 29.7$

$\square \times \square$

Answer _____

**3**

Estimate the value. Round each number to 1 significant figure first.

$693 \div 6.8$

$\square \div \square$

Answer _____

**4**

Estimate the value. Round each number to 1 significant figure first.

$0.42 \times 18.6$

$\square \times \square$

Answer _____

**5**

Estimate the value. Round each number to 1 significant figure first.

$$\frac{38.4 + 11.9}{4.7} \approx \frac{\square + \square}{\square}$$

Top first _____

Answer _____

**6**

Estimate the value. Round each number to 1 significant figure first.

$38.9 \div 0.21$

$\square \div \square$

Answer _____

**7**

A café sells 29 sandwiches at £3.85 each.
Estimate how much it takes.
Is your estimate an overestimate or an underestimate? Explain.

Answer _____

**8**

Mia estimates $8.6 \times 0.27$ as $9 \times 0 = 0$.
Explain her mistake. Then give a better estimate.

Answer _____

# Estimating calculations *further practice*

**9**

Estimate the value of

$$7.21 \times 61.4 \div 2.13$$

**Answer** _____

**10**

Estimate the value of

$$\frac{4.8 \times 31.2}{2.9 + 2.2}$$

**Answer** _____

**11**

Estimate the value of

$$\frac{52.3 + 9.8}{0.21}$$

**Answer** _____

**12**

Sam estimates $3.4 \times 2.3$ as $3 \times 2 = 6$.
Is the exact answer bigger or smaller than 6? Explain how you know without working it out.

**Answer** _____

**13**

One litre of paint covers 11.8 $m^2$.
Estimate how many litres are needed to paint 207 $m^2$.

**Answer** _____

**14**

A school orders 412 books at £5.85 each.
Estimate the total cost.

**Answer** _____

**15**

The area of a circle is $\pi \times r^2$. Use $\pi = 3.14$ to estimate the area of a circle with radius 4.8 cm.

**Answer** _____

**16**

Kai says $61.8 \div 0.52$ is about 30, because dividing by 0.5 halves a number.
Is Kai right? Explain.

**Answer** _____