

M6 = 4 days to go!

5 (a) Estimate $\sqrt{385}$

$$\sqrt{361} = 19$$

$$\sqrt{400} = 20$$

$$\sqrt{385} \approx 19.6$$
$$\approx 20$$

Answer 20 [2]

(b) Is your estimate greater than or less than the actual value of $\sqrt{385}$?

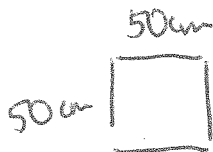
Answer greater than [1]

15 Tiles measure 50 cm by 30 cm.

Each tile costs £2.09

418 cm 272 cm

Estimate the cost of tiling a room which measures 4.18 m by 2.72 m.



$$418 \div 50 = 8.36$$

need 9 tiles

$$272 \div 50 = 5.44$$

need 6 tiles

Answer £ 108 [4]

$$9 \times 6 = 54$$

$$54 \times 2.09$$

$$\approx 54 \times 2$$

$$108$$

7 A builder estimates that it will cost £30 000 to build a school extension.

£1 = 1.44 euro

How much is the estimate in euro?

$$\begin{array}{r} \pounds 1 \\ \downarrow \\ \text{€} 1.44 \end{array} \qquad \begin{array}{r} \pounds 30000 \\ \downarrow \times 1.44 \\ 43200 \end{array}$$

Answer € 43200 [1]

9 There are 200 tickets on sale for a concert.

75% of the tickets need to be sold to avoid making a loss.

145 tickets are sold.

Will there be a loss?

Show your working.

$$75\% \text{ of } 200$$

$$\frac{3}{4} \text{ of } 200 = 3 \times 50 = 150$$

Answer A loss because 5 more tickets [2]
need to be sold
to avoid a loss