## Use your squares

Squaring a number is multiplying it by itself, for example 12 squared or $12^{2}=12 \times 12=144$. When squaring multiples of 10 , make sure that the number of zeros in the answer matches the number of zeros in the question, for example $60 \times 60$ has two zeros, so there must be two zeros in the answer: $60 \times 60=3600$.

## Use your knowledge of square numbers to help you solve these problems.

1. Rashid says: " $12 \times 12=144$, so $12 \times 13$ must equal 157 ."
a. Is he correct?
b. Explain your reasoning.
2. Mr Smith's garden measures 49 m by 52 m .
a. What is the garden's approximate area? $\qquad$
b. Explain how you worked this out. $\qquad$
3. Molly says: "To find the answer to $70^{2}$, you multiply $7 \times 7$, then add the zero.

The answer is 490."
a. Is she correct?
b. Explain your answer.
4. What number multiplied by itself gives the answer 6400? $\qquad$
5. Sunnyville School's playground measures 40 m by 40 m . A space measuring 18 m by 22 m is marked out for ball games. Approximately how much space is left for other types of games? Show your workings.


