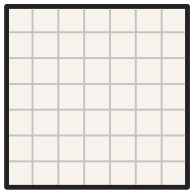
Squares and square roots

1

Find the area of the square.
Count the small squares to check.



7 cm

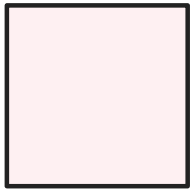
side × side = area

7 × 7 = ☐

Area = _____

2

Find the area of the square.



12 cm

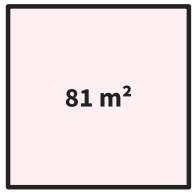
side × side = area

12 × 12 = ☐

Area = _____

3

A square has an area of 81 m².
How long is each side?



?

side × side = area

☐ × ☐ = 81

Each side = _____

4

A square has an area of 196 cm².
How long is each side?



?

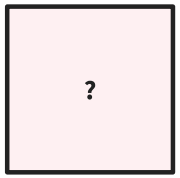
side × side = area

☐ × ☐ = ☐

Each side = _____

5

A square badge has sides of 0.8 cm.
Work out its area.



0.8 cm

_____

_____

Area = _____

6

Between which two whole numbers is √40? Which one is it closer to?
Mark √40 on the number line.



_____

_____

Answer _____

7

Ezra says √144 = 72. Explain what Ezra has done wrong. Then write the right answer.

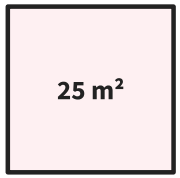
_____

_____

Answer _____

8

A square patio has an area of 25 m².
Work out the perimeter of the patio.



_____

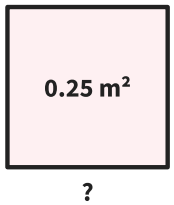
_____

Perimeter = _____

Squares and square roots *further practice*

9

A square has an area of 0.25 m^2.
How long is each side?



Each side = _____

10

Which of these are square numbers?

27 64 90 121 150 169

Answer _____

11

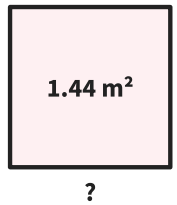
Write these in order, smallest first.

3.5 $\sqrt{10}$ 3^2 $\sqrt{16}$

Order _____

12

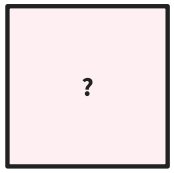
A square window has an area of
1.44 m^2. How wide is the window?



Width = _____

13

A square photo frame has a perimeter of 28 cm. Work out its area.



Area = _____

14

Noor has 150 square tiles.
She makes the biggest square she can with them. How many tiles are left over?

Left over _____

15

Find two different numbers that give 64 when you square them.

Answer _____

16

Mia says $0.3^2 = 0.9$. Is Mia right?
Explain how you know.

Answer _____