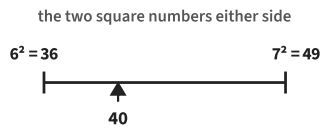


## Estimating Roots

1

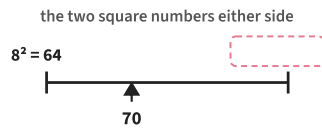
Estimate  $\sqrt{40}$  to 1 decimal place.



Answer \_\_\_\_\_

2

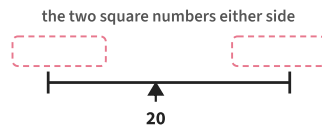
Estimate  $\sqrt{70}$  to 1 decimal place.



Answer \_\_\_\_\_

3

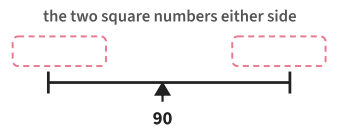
Estimate  $\sqrt{20}$  to 1 decimal place.



Answer \_\_\_\_\_

4

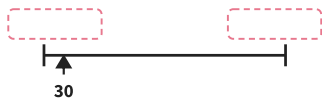
Estimate  $\sqrt{90}$  to 1 decimal place.



Answer \_\_\_\_\_

5

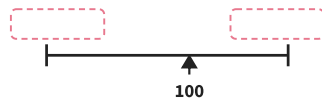
Estimate  $\sqrt[3]{30}$  to 1 decimal place.



Answer \_\_\_\_\_

6

Estimate  $\sqrt[3]{100}$  to 1 decimal place.



Answer \_\_\_\_\_

7

A square has an area of  $70 \text{ cm}^2$ .  
Estimate the length of one side to 1 decimal place.

Answer \_\_\_\_\_

8

Between which two whole numbers does  $\sqrt{95}$  lie?

Answer \_\_\_\_\_

## Estimating Roots *further practice*

9

Estimate  $\sqrt{55}$  to 1 decimal place.

Answer \_\_\_\_\_

10

Between which two consecutive whole numbers does  $\sqrt[3]{200}$  lie?

Answer \_\_\_\_\_

11

Which is bigger,  $\sqrt{60}$  or  $\sqrt[3]{300}$ ?  
Show how you know.

Answer \_\_\_\_\_

12

A cube has a volume of  $80 \text{ cm}^3$ .  
Estimate the length of one edge to 1 decimal place.

Answer \_\_\_\_\_

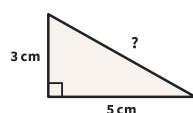
13

$\sqrt{n}$  is between 7 and 8.  $n$  is a multiple of 5. Write down all the possible values of  $n$ .

Answer \_\_\_\_\_

14

Estimate the length of the longest side of this triangle to 1 decimal place.



Answer \_\_\_\_\_

15

A square car park has an area of  $4000 \text{ m}^2$ . Estimate the length of one side to the nearest metre.

Answer \_\_\_\_\_

16

Kai says  $\sqrt{90}$  is about 9.5 because 90 is about halfway between 81 and 100. Is  $\sqrt{90}$  bigger or smaller than 9.5? Explain.

Answer \_\_\_\_\_