



Square Roots **Answers**

The square root of 100 is the number which you must multiply by itself to give 100. The square root of 100 is 10 because 10 multiplied by 10 is 100. We could also say that -10 is a square root of 100 because -10 multiplied by -10 is also 100.

Square rooting is the inverse of squaring.

We write square root using this symbol $\sqrt{\quad}$ or more commonly just $\sqrt{\quad}$.

$\sqrt{36} = 6$ because the number that multiplies by itself to give 36 is 6. Notice that when we are asked to evaluate a square root we state the positive square root.

1. Find:

a. $\sqrt{25}$

5

b. $\sqrt{81}$

9

c. $\sqrt{121}$

11

d. $\sqrt{64}$

8

e. $\sqrt{4}$

2

f. $\sqrt{16}$

4

g. $\sqrt{49}$

7

h. $\sqrt{9}$

3

i. $\sqrt{144}$

12

j. $\sqrt{1}$

1

2. Replace the question mark with the correct number in each of the following:

a. $7 = \sqrt{?}$

? = 49

b. $3 = \sqrt{?}$

? = 9

c. $9 = \sqrt{?}$

? = 81

d. $8 = \sqrt{?}$

? = 64

e. $1 = \sqrt{?}$

? = 1

f. $5 = \sqrt{?}$

? = 25

g. $10 = \sqrt{?}$

? = 100

h. $2 = \sqrt{?}$

? = 4

i. $12 = \sqrt{?}$

? = 144

j. $11 = \sqrt{?}$

? = 121

k. $4 = \sqrt{?}$

? = 16

l. $6 = \sqrt{?}$

? = 36



3. Use your calculator to find the value of each of the following:

a. $\sqrt{225}$

15

b. $\sqrt{361}$

19

c. $\sqrt{441}$

21

d. $\sqrt{9025}$

95

e. $\sqrt{7.84}$

2.8

f. $\sqrt{900}$

30

g. $\sqrt{10000}$

100

h. $\sqrt{65.61}$

8.1

i. $\sqrt{0.25}$

0.5

j. $\sqrt{2401}$

49