



## Square Roots

### A. Choose the correct answer:

1. The square root of 144 is.

- a) 12
- b) 14
- c) 13
- d) 15

2. The square root of  $\frac{1}{4}$  is.

- a)  $\frac{1}{2}$
- b)  $\frac{2}{1}$
- c) 4
- d)  $\frac{1}{4}$

3.  $\sqrt{49} + \sqrt{121}$  equals.

- a) 17
- b) 18
- c) 19
- d) 20

4. Which of the following has a non-terminating decimal square root.

- a) 81
- b) 50
- c) 49
- d) 64

5. The square root of a perfect square number is always.

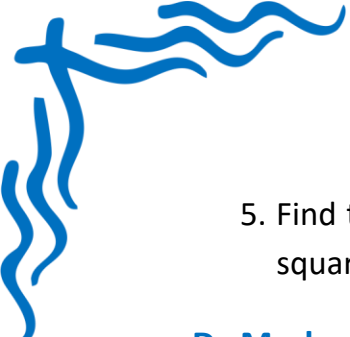
- a) Irrational
- b) Rational
- c) Prime
- d) Even only

### B. Write the Missing Terms to Complete the Sentences:

1. The square root of 0 is \_\_\_\_\_.
2. The symbol used for square root is called the \_\_\_\_\_ sign.
3. Square root of 225 is \_\_\_\_\_.
4. If  $x^2 = 36$ , then  $x =$  \_\_\_\_\_ or \_\_\_\_\_.
5. The square root of a fraction is the square root of \_\_\_\_\_ and \_\_\_\_\_ separately.

### C. Figure out the answers to these questions:

1. Find the square root of 0.09.
2. Find the value of  $\sqrt{\frac{4}{9}}$ .
3. Find two numbers whose square roots add up to 10.
4. If  $\sqrt{x} = 7$ , find the value of  $x$ .

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5. Find the smallest number by which 72 must be multiplied to make it a perfect square

**D. Mark each sentence with a True (✓) or False (X):**

1. The square root of 25 is 6. \_\_\_\_\_
2.  $\sqrt{64}$  is equal to 8. \_\_\_\_\_
3. The square root of a non-perfect square is an irrational number. \_\_\_\_\_
4.  $(\sqrt{5})^2 = 5$ . \_\_\_\_\_
5. Square root of 1 is 1. \_\_\_\_\_

**E. Challenge yourself with these questions:**

1. Find the square root of 625 using prime factorization method.
2. Estimate the value of  $\sqrt{82}$  to one decimal place.
3. Write the square roots of first five perfect squares.
4. Find the value of  $\sqrt{\frac{16}{25}}$ .
5. A number is multiplied by itself to give 324. Find the number.