

# Comparing and Ordering Square Roots

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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## Remember:

- $\sqrt{1} = 1$ ,  $\sqrt{4} = 2$ ,  $\sqrt{9} = 3$ ,  $\sqrt{16} = 4$ ,  $\sqrt{25} = 5$ ,  $\sqrt{36} = 6$ ,  $\sqrt{49} = 7$ ,  $\sqrt{64} = 8$ ,  $\sqrt{81} = 9$ ,  $\sqrt{100} = 10$
- For non-perfect squares, estimate by finding the closest perfect squares

## Part A: Compare the numbers using $<$ , $>$ , or $=$

1.  $\sqrt{16}$  \_\_\_\_\_ 5

2.  $\sqrt{25}$  \_\_\_\_\_ 4

3.  $\sqrt{49}$  \_\_\_\_\_ 7

4.  $\sqrt{36}$  \_\_\_\_\_ 8

5.  $\sqrt{9}$  \_\_\_\_\_ 2

6.  $\sqrt{64}$  \_\_\_\_\_ 9

7. 6 \_\_\_\_\_  $\sqrt{30}$

8.  $\sqrt{50}$  \_\_\_\_\_ 7

9.  $\sqrt{81}$  \_\_\_\_\_ 10

10. 5 \_\_\_\_\_  $\sqrt{20}$

## Part B: Order the numbers from smallest to largest

11. 3,  $\sqrt{16}$ ,  $\sqrt{9}$ , 5

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

12.  $\sqrt{25}$ , 4,  $\sqrt{36}$ , 7

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

13.  $\sqrt{49}$ , 8,  $\sqrt{64}$ , 6

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

14. 2,  $\sqrt{10}$ , 4,  $\sqrt{15}$

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

15.  $\sqrt{100}$ ,  $\sqrt{81}$ , 10, 8

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

## Part C: Challenge

16. Order from largest to smallest:  $\sqrt{40}$ , 7,  $\sqrt{50}$ , 6,  $\sqrt{30}$

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

17. Which is greater:  $\sqrt{72}$  or 9? Explain your reasoning.

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18. Place these in order from smallest to largest:  $\sqrt{5}$ , 2,  $\sqrt{12}$ , 3,  $\sqrt{20}$ , 5

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