



Square roots with Exponents; Addition and Subtraction; Division and Multiplication; and Perfect Squares

Grade 8 The Number System Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING SQUARE ROOTS FUN

Find the square roots of the following.

1. $\sqrt{49} \times \sqrt{100} = \square$

2. $\sqrt{100} + \sqrt{100} = \square$

3. $\sqrt{24^2} = \square$

4. $\sqrt{36} + \sqrt{81} = \square$

5. $\sqrt{81} - \sqrt{25} = \square$

6. $\sqrt{91 - 27} = \square$

7. $\sqrt{8 \times 2} = \square$

8. $(\sqrt{16})^2 = \square$

9. $\sqrt{49} + \sqrt{9} = \square$

10. $(\sqrt{100})^2 = \square$

11. $\frac{\sqrt{100}}{\sqrt{4}} = \square$

12. $\sqrt{49 + 0} = \square$

13. $\sqrt{56 + 25} = \square$

14. $\sqrt{\frac{490}{10}} = \square$

15. $(\sqrt{36})^2 = \square$

16. $\sqrt{\frac{250}{10}} = \square$

17. $\sqrt{49} \times \sqrt{49} = \square$

18. $\sqrt{9} \times \sqrt{100} = \square$

19. $\frac{\sqrt{100}}{\sqrt{25}} = \square$

20. $\frac{\sqrt{16}}{\sqrt{4}} = \square$



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Grade 8 The Number System Answer Sheet

1. $\sqrt{49} \times \sqrt{100} = \boxed{70}$

2. $\sqrt{100} + \sqrt{100} = \boxed{20}$

3. $\sqrt{24^2} = \boxed{24}$

4. $\sqrt{36} + \sqrt{81} = \boxed{15}$

5. $\sqrt{81} - \sqrt{25} = \boxed{4}$

6. $\sqrt{91 - 27} = \boxed{8}$

7. $\sqrt{8 \times 2} = \boxed{4}$

8. $(\sqrt{16})^2 = \boxed{16}$

9. $\sqrt{49} + \sqrt{9} = \boxed{10}$

10. $(\sqrt{100})^2 = \boxed{100}$

11. $\frac{\sqrt{100}}{\sqrt{4}} = \boxed{5}$

12. $\sqrt{49 + 0} = \boxed{7}$

13. $\sqrt{56 + 25} = \boxed{9}$

14. $\sqrt{\frac{490}{10}} = \boxed{7}$

15. $(\sqrt{36})^2 = \boxed{36}$

16. $\sqrt{\frac{250}{10}} = \boxed{5}$

17. $\sqrt{49} \times \sqrt{49} = \boxed{49}$

18. $\sqrt{9} \times \sqrt{100} = \boxed{30}$

19. $\frac{\sqrt{100}}{\sqrt{25}} = \boxed{2}$

20. $\frac{\sqrt{16}}{\sqrt{4}} = \boxed{2}$