



Square roots with other Operations: 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. $\sqrt{\frac{0}{8}} = \square$

2. $\sqrt{361} - \sqrt{121} = \square$

3. $\sqrt{144} + \sqrt{169} = \square$

4. $\sqrt{3 \times 27} = \square$

5. $\sqrt{196} - \sqrt{36} = \square$

6. $\sqrt{289} + \sqrt{9} = \square$

7. $\sqrt{22 + 42} = \square$

8. $\sqrt{3 + 6} = \square$

9. $\frac{\sqrt{256}}{\sqrt{16}} = \square$

10. $\sqrt{\frac{2888}{8}} = \square$

11. $\sqrt{\frac{441}{9}} = \square$

12. $\sqrt{63 \times 7} = \square$

13. $(\sqrt{144})^2 = \square$

14. $\sqrt{8 + 41} = \square$

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

16. $\sqrt{113^2} = \square$

17. $\sqrt{\frac{1372}{7}} = \square$

18. $\sqrt{81 \times 4} = \square$

19. $\sqrt{49} + \sqrt{169} = \square$

20. $\sqrt{5 \times 5} = \square$



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Grade 8 The Number System Answer Sheet

1. $\sqrt{\frac{0}{8}} = \boxed{0}$

2. $\sqrt{361} - \sqrt{121} = \boxed{8}$

3. $\sqrt{144} + \sqrt{169} = \boxed{25}$

4. $\sqrt{3 \times 27} = \boxed{9}$

5. $\sqrt{196} - \sqrt{36} = \boxed{8}$

6. $\sqrt{289} + \sqrt{9} = \boxed{20}$

7. $\sqrt{22 + 42} = \boxed{8}$

8. $\sqrt{3 + 6} = \boxed{3}$

9. $\frac{\sqrt{256}}{\sqrt{16}} = \boxed{4}$

10. $\sqrt{\frac{2888}{8}} = \boxed{19}$

11. $\sqrt{\frac{441}{9}} = \boxed{7}$

12. $\sqrt{63 \times 7} = \boxed{21}$

13. $(\sqrt{144})^2 = \boxed{144}$

14. $\sqrt{8 + 41} = \boxed{7}$

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

16. $\sqrt{113^2} = \boxed{113}$

17. $\sqrt{\frac{1372}{7}} = \boxed{14}$

18. $\sqrt{81 \times 4} = \boxed{18}$

19. $\sqrt{49} + \sqrt{169} = \boxed{20}$

20. $\sqrt{5 \times 5} = \boxed{5}$