

SQUARE ROOTS

Square roots are the opposite of exponents. To find the square root of a number, ask yourself, "What number times itself equals the number under the radical sign?"

$\sqrt{81} =$ what number times itself will give you 81? $= 9$ (because $9 \times 9 = 81$)

$\sqrt{16} = 4$ (because $4 \times 4 = 16$)

$3\sqrt{25} =$ means 3 times the square root of 25 $= 3 \times 5 = 15$

$\sqrt{\frac{4}{9}} =$ divide the fraction into two parts, then find square root of each $= \frac{\sqrt{4}}{\sqrt{9}} = \frac{2}{3}$

$\sqrt{64} + \sqrt{81} =$ find the square root of each then add $= 8 + 9 = 17$

Evaluate each expression. Remember to reduce fractions if needed.

1. $\sqrt{25}$	2. $\sqrt{100}$	3. $\sqrt{49}$	4. $\sqrt{121}$
5. $\sqrt{16}$	6. $\sqrt{36}$	7. $\sqrt{225}$	8. $\sqrt{4}$
9. $\sqrt{64}$	10. $\sqrt{\frac{100}{144}}$	11. $\sqrt{\frac{4}{64}}$	12. $\sqrt{\frac{81}{169}}$
13. $4\sqrt{9}$	14. $\sqrt{64} - \sqrt{81}$	15. $\sqrt{36} - \sqrt{25}$	16. $\sqrt{400} + \sqrt{36}$
17. $2\sqrt{196}$	18. $\sqrt{9}$	19. $\sqrt{1}$	20. $\sqrt{256}$
21. $\sqrt{289} - \sqrt{81}$	22. $10\sqrt{100}$	23. $3 + \sqrt{25}$	24. $\sqrt{25} + \sqrt{16} + \sqrt{36}$
25. $6\sqrt{121}$	26. $2\sqrt{81} + 3\sqrt{49}$	27. $\sqrt{10000}$	28. $\sqrt{3600}$