




LESSON 1-1 Digits

Goal: I will be able to determine perfect squares and square roots.	
Tool Bag Formulas, equations, Vocabulary, etc.	Here's How... Notes & Examples
Square 2 by 2 4 by 4 6 by 6	has 4 equal sides  $A = 4 = 2 \cdot 2 = 2^2$ $\sqrt{4} = 2$  $A = 16 = 4 \cdot 4 = 4^2$ $\sqrt{16} = 4$  $A = 36 = 6 \cdot 6 = 6^2$ $\sqrt{36} = 6$ $\sqrt{4^2} = 4$ $\sqrt{6^2} = 6$

Square Root Perfect Squares	undoes the square of a number $\sqrt{49} = 7$ $\sqrt{x^2} = x$ the area of a square where the sides are integers $A = 4$ side = $\sqrt{4} = 2$ $A = 16$ side = $\sqrt{16} = 4$ 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225
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You Try	Simplify a) $\sqrt{49}$ 7 b) $\sqrt{196}$ 14 c) $\sqrt{4x^2}$ $\sqrt{4} \cdot \sqrt{x^2}$ $2 \cdot x$ $2x$ d) $\sqrt{169 \cdot 64}$ $\sqrt{169} \cdot \sqrt{64}$ $13 \cdot 8$ 104
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Fractions to Decimals	$\frac{\text{numerator}}{\text{denominator}}$ $\frac{\text{denominator}}{\text{numerator}}$ $\frac{1}{5} = 0.2$ $5 \overline{) 1.0}$ $\underline{10}$ 0 $\frac{7}{11} = 0.\overline{63}$ $11 \overline{) 7.000}$ $\underline{66}$ 40 $\underline{33}$ 70 $\underline{66}$ 4
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