

Name: _____

Grade: _____

Score: _____

Worksheet #2



SQUARES & CUBES

Learning goal: Students will simplify expressions involving squares, square roots, cubes, and cube roots using step-by-step calculations.

Instructions: Solve and state if it's a perfect square or not.

$$\sqrt{\sqrt{225} + 5^2 + 3^3}.$$

$$\sqrt{225} = 15$$

$$5^2 = 25$$

$$3^2 = 27$$

$$15 + 25 + 27 = 67$$

$$= \sqrt[3]{67}$$

$$\sqrt{(\sqrt{625} + 2^6 + 3^2)}.$$

$$\sqrt{(\sqrt{256} + 3^2 + 2^4)}.$$

$$\sqrt[3]{(\sqrt{900} + 5^3 + 4^2)}.$$

$$\sqrt[3]{(\sqrt{400} + 4^3 + 2^5)}.$$

$$\sqrt{(\sqrt{1024} + 3^4 + 2^3)}.$$

Name: _____

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Worksheet #2(Answers)

**SQUARES & CUBES**

Learning goal: Students will simplify expressions involving squares, square roots, cubes, and cube roots using step-by-step calculations.

Instructions: Solve and state if it's a perfect square or not.

$$\sqrt{\sqrt{225} + 5^2 + 3^2}$$

$$\sqrt{225} = 15$$

$$5^2 = 25$$

$$3^2 = 27$$

$$15 + 25 + 27 = 67$$

$$= \sqrt[3]{67}$$

$$\sqrt{(\sqrt{625} + 2^6 + 3^2)}$$

$$\sqrt{625} = 25$$

$$2^6 = 64$$

$$25 + 64 + 9 = 98$$

$$= \sqrt{98}$$

$$\sqrt{(\sqrt{256} + 3^2 + 2^4)}$$

$$\sqrt{256} = 16$$

$$3^2 = 27$$

$$2^4 = 16$$

$$16 + 27 + 16 = 59$$

$$= \sqrt{59}$$

$$\sqrt[3]{(\sqrt{900} + 5^3 + 4^2)}$$

$$\sqrt{900} = 30$$

$$4^2 = 16$$

$$30 + 125 + 16 = 171$$

$$= \sqrt[3]{171}$$

$$\sqrt[3]{(\sqrt{400} + 4^3 + 2^5)}$$

$$\sqrt{400} = 20$$

$$4^3 = 64$$

$$2^5 = 32$$

$$20 + 64 + 32 = 116$$

$$= \sqrt[3]{116}$$

$$\sqrt{(\sqrt{1024} + 3^4 + 2^3)}$$

$$\sqrt{1024} = 32$$

$$3^4 = 81$$

$$2^3 = 8$$

$$32 + 81 + 8 = 121$$

$$= \sqrt{121} = 11$$