Worksheet #3

MeandMath
BELIEVE YOURSELF

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.

$\sqrt[3]{\left(\sqrt{1600+}6^2 + 3^3\right)}.$

$\sqrt{1600} = 40$

$6^2 = 36$

$3^3 = 27$

$40 + 36 + 27 = 103$

$= \sqrt[3]{103}$

$\sqrt[3]{\left(\sqrt{10000+}5^4 + 3^3\right)}.$

$\sqrt{\left(\sqrt{2500} + 4^4 + 2^5\right)}.$

$\sqrt{\left(\sqrt{12100} + 3^5 + 2^4\right)}.$

$\sqrt[3]{\left(\sqrt{3600} + 7^2 + 4^3\right)}.$

$\sqrt[3]{\left(\sqrt{16900+}4^5 + 3^2\right)}.$

Worksheet #3(Answers)

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$$\sqrt[3]{\left(\sqrt{1600+}6^2 + 3^3\right)}.$$

$\sqrt{1600} = 40$

$6^2 = 36$

$3^3 = 27$

$40 + 36 + 27 = 103$

$= \sqrt[3]{103}$

$$\sqrt[3]{\left(\sqrt{10000+}5^4 + 3^3\right)}.$$

$\sqrt{10000} = 100$

$5^4 = 625$

$3^2 = 27$

$100 + 625 + 27 = 752$

$= \sqrt[3]{752}$

$$\sqrt{\left(\sqrt{2500} + 4^4 + 2^5\right)}.$$

$\sqrt{2500} = 50$

$4^4 = 256$

$2^5 = 32$

$50 + 256 + 32 = 338$

$\sqrt{338}$

$$\sqrt{\left(\sqrt{12100} + 3^5 + 2^4\right)}.$$

$\sqrt{12100} = 100$

$3^5 = 243$

$2^4 = 16$

$110 + 243 + 16 = 369$

$= \sqrt{369}$

$$\sqrt[3]{\left(\sqrt{3600} + 7^2 + 4^3\right)}.$$

$\sqrt{3600} = 60$

$7^2 = 49$

$4^3 = 64$

$60 + 49 + 64 = 173$

$= \sqrt[3]{173}$

$$\sqrt[3]{\left(\sqrt{16900+}4^5 + 3^2\right)}.$$

$\sqrt{16900} = 130$

$4^3 = 1024$

$3^2 = 9$

$130 + 1024 + 9 = 1163$

$= \sqrt[3]{1163}$