Name: **Grade:** **Score:**

Worksheet #1

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.

$\sqrt[3]{\sqrt{64}+2^3}.$

$\sqrt{64}=8$

$2^3=8$

$8+8=16$

$=\sqrt[3]{16}$

$\sqrt{\left(\sqrt{16}+2^3\right)}.$

$\sqrt{\sqrt{(81+3^2)}}.$

$\sqrt[3]{\left(\sqrt{36}+5^2\right)}.$

$\sqrt[3]{\left(\sqrt{25}+4^2\right)}.$

$\sqrt{\left(\sqrt{49}+3^3\right)}.$

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Name: **Grade:** **Score:**

Worksheet #1(Answers)

MeandMath

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.

$\sqrt[3]{\sqrt{64}+2^3}.$

$\sqrt{64}=8$

$2^3=8$

$8+8=16$

$=\sqrt[3]{16}$

$\sqrt{\left(\sqrt{16}+2^3\right)}.$

$\sqrt{16}=4$

$2^3=8$

$4+8=12$

$=\sqrt{12}$

$\sqrt{\sqrt{(81+3^2)}}.$

$\sqrt{81}=9$

$3^2=9$

$9+9=18$

$=\sqrt{18}$

$\sqrt[3]{\left(\sqrt{36}+5^2\right)}.$

$\sqrt{36}=6$

$5^2=25$

$6+25=31$

$=\sqrt[3]{31}$

$\sqrt[3]{\left(\sqrt{25}+4^2\right)}.$

$\sqrt{25}=5$

$4^2=16$

$5+16=21$

$=\sqrt[3]{21}$

$\sqrt{\left(\sqrt{49}+3^3\right)}.$

$\sqrt{49}=7$

$3^3=27$

$7+27=34$

$=\sqrt{34}$