

CUBE ROOT: $\sqrt[3]{x}$

NAME: _____ Nos: _____ Grade: _____

WORKOUT EACH OF THE FOLLOWING

1 Find the cube root of:

- a) $27 =$ _____ b) $40 =$ _____
 c) $-\frac{8}{125} =$ _____ d) $\frac{216}{729} =$ _____
 e) $0.008 =$ _____ f) $0.000512 =$ _____

2. Find the values of the following

- a) $\sqrt[3]{125} =$ b) $\sqrt[3]{343} =$ c) $\sqrt[3]{-27} =$
 d) $\sqrt[3]{\frac{64}{125}} =$ e) $\sqrt[3]{-0.027} =$ f) $\sqrt[3]{0.512} =$
 g) $\sqrt[3]{0.000064} =$ h) $\sqrt[3]{-0.125} =$

3. Solve the following equations.

- a) $x^3 = 100$ Ans: _____ b) $x^3 = 216$ Ans: _____
 c) $x^3 = 0.027$ Ans: _____ d) $\sqrt[3]{x} = -9$ Ans: _____
 e) $\sqrt[3]{x} = \frac{1}{5}$ Ans: _____ f) $\sqrt[3]{\quad} = 1.4$ Ans: _____

5	3	0.8	$\sqrt[3]{100}$	-3	216	0.08	2.744	$-\frac{2}{5}$	-0.3
0.2	$\frac{1}{125}$	7	$\frac{2}{3}$	-729	-0.5	$2\sqrt[3]{5}$	$\frac{4}{5}$	0.3	0.04