Worksheet #3

CUBES AND CUBE ROOTS

Learning goal: Students will identify, compute, and apply the relationship between cubes and cube roots to solve mathematical problems efficiently.

Instructions: Observe and match correctly.

Cube Root	Cube
a) 12	i) 1331
b) 3	ii) 27
c) 6	iii) 216
d) 11	iv) 1728
e) 5	v) 125

Cube	Cube Root
a) 1331	i) 5
b) 27	ii) 3
c) 216	iii) 6
d) 1728	iv) 12
e) 125	v) 11

a-___, b-___, c-___, d-___, e-___i   a-___, b-___, c-___, d-___, e-___i

Instructions: Fill the blank.

a) $\sqrt[3]{729} = \square$

b) $\sqrt[3]{64} = \square$

c) $\sqrt[3]{125} = \square$

d) $\sqrt[3]{1} = \square$

e) $\sqrt[3]{8} = \square$

f) $\sqrt[3]{343} = \square$

g) $\sqrt[3]{216} = \square$

h) $\sqrt[3]{512} = \square$

i) $\sqrt[3]{27} = \square$

Instructions: Fill the blank.

a) $9 = \sqrt[3]{?}$

b) $2 = \sqrt[3]{?}$

c) $5 = \sqrt[3]{?}$

d) $8 = \sqrt[3]{?}$

e) $6 = \sqrt[3]{?}$

f) $3 = \sqrt[3]{?}$

g) $1 = \sqrt[3]{?}$

h) $4 = \sqrt[3]{?}$

i) $7 = \sqrt[3]{?}$

Worksheet #3(Answers)

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Learning goal: Students will identify, compute, and apply the relationship between cubes and cube roots to solve mathematical problems efficiently.

Instructions: Observe and match correctly.

Cube Root	Cube
a) 12	i) 1331
b) 3	ii) 27
c) 6	iii) 216
d) 11	iv) 1728
e) 5	v) 125

a-iv, b-ii, c-iii, d-i, e-v

Cube	Cube Root
a) 1331	i) 5
b) 27	ii) 3
c) 216	iii) 6
d) 1728	iv) 12
e) 125	v) 11

a-v, b-ii, c-iii, d-iv, e-i

Instructions: Fill the blank.

a) $\sqrt[3]{729} = 9$ d) $\sqrt[3]{1} = 1$ g) $\sqrt[3]{216} = 6$

b) $\sqrt[3]{64} = 4$ e) $\sqrt[3]{8} = 2$ h) $\sqrt[3]{512} = 8$

c) $\sqrt[3]{125} = 5$ f) $\sqrt[3]{343} = 7$ i) $\sqrt[3]{27} = 3$

Instructions: Fill the blank.

a) $9 = \sqrt[3]{729}$ d) $8 = \sqrt[3]{512}$ g) $1 = \sqrt[3]{1}$

b) $2 = \sqrt[3]{8}$ e) $6 = \sqrt[3]{216}$ h) $4 = \sqrt[3]{64}$

c) $5 = \sqrt[3]{125}$ f) $3 = \sqrt[3]{27}$ i) $7 = \sqrt[3]{343}$