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

Worksheet #4

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) 7	i) 343
b) 13	ii) 2197
c) 2	iii) 8
d) 9	iv) 729
e) 4	v) 64

a-__, b-__, c-__, d-__, e-__i

Cube	Cube Root
a) 512	i) 10
b) 729	ii) 9
c) 1	iii) 1
d) 64	iv) 8
e) 1000	v) 4

a-__, b-__, c-__, d-__, e-__i

Instructions: Fill the blank.

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

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

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

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

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

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

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

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

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

Instructions: Fill the blank.

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

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

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

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

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

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

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

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

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

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

Worksheet #4(Answers)

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) 7	i) 343
b) 13	ii) 2197
c) 2	iii) 8
d) 9	iv) 729
e) 4	v) 64

a–iii, b–ii, c–v, d–iv, e–i

Cube	Cube Root
a) 512	i) 10
b) 729	ii) 9
c) 1	iii) 1
d) 64	iv) 8
e) 1000	v) 4

a–iv, b–ii, c–iii, d–v, e–i

Instructions: Fill the blank.

a) $\sqrt[3]{343} = 7$

b) $\sqrt[3]{512} = 8$

c) $\sqrt[3]{125} = 5$

d) $\sqrt[3]{8} = 2$

e) $\sqrt[3]{729} = 9$

f) $\sqrt[3]{64} = 4$

g) $\sqrt[3]{27} = 3$

h) $\sqrt[3]{1} = 1$

i) $\sqrt[3]{216} = 6$

Instructions: Fill the blank.

a) $7 = \sqrt[3]{343}$

b) $3 = \sqrt[3]{27}$

c) $8 = \sqrt[3]{512}$

d) $6 = \sqrt[3]{216}$

e) $2 = \sqrt[3]{8}$

f) $9 = \sqrt[3]{729}$

g) $5 = \sqrt[3]{125}$

h) $1 = \sqrt[3]{1}$

i) $4 = \sqrt[3]{64}$