

Name: \_\_\_\_\_

Grade: \_\_\_\_\_

Score: \_\_\_\_\_

## Worksheet #1



# 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) 5      | i) 216   |
| b) 2      | ii) 8    |
| c) 7      | iii) 343 |
| d) 3      | iv) 27   |
| e) 6      | v) 125   |

| Cube    | Cube Root |
|---------|-----------|
| a) 2744 | i) 8      |
| b) 512  | ii) 14    |
| c) 1000 | iii) 15   |
| d) 1    | iv) 10    |
| e) 3375 | v) 1      |

a-\_\_\_, b-\_\_\_, c-\_\_\_, d-\_\_\_, e-\_\_\_i

a-\_\_\_, b-\_\_\_, c-\_\_\_, d-\_\_\_, e-\_\_\_i

**Instructions:** Fill the blank.

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

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

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

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

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

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

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

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

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

**Instructions:** Fill the blank.

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

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

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

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

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

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

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

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

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

Name:

Grade:

Score:

## Worksheet #1(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) 5      | i) 216   |
| b) 2      | ii) 8    |
| c) 7      | iii) 343 |
| d) 3      | iv) 27   |
| e) 6      | v) 125   |

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

| Cube    | Cube Root |
|---------|-----------|
| a) 2744 | i) 8      |
| b) 512  | ii) 14    |
| c) 1000 | iii) 15   |
| d) 1    | iv) 10    |
| e) 3375 | v) 1      |

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

**Instructions:** Fill the blank.

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

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

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

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

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

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

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

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

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

**Instructions:** Fill the blank.

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

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

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

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

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

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

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

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

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