

# Cubes and Cube Roots

Name \_\_\_\_\_

Directions: Find the cube of each number.

1. 2

2. 9

3. 4

4. 10

5. 7

6. 15

7. 1

8. 3

9. 8

10. 20

11. 5

12. 12

Using a calculator find each cube root. Round answers to the nearest thousandth.

13.  $\sqrt[3]{64}$

14.  $\sqrt[3]{1}$

15.  $\sqrt[3]{10}$

16.  $\sqrt[3]{165}$

17.  $\sqrt[3]{729}$

18.  $\sqrt[3]{1000}$

19.  $\sqrt[3]{943}$

20.  $\sqrt[3]{1243}$

21.  $\sqrt[3]{175}$

22.  $\sqrt[3]{343}$

23.  $\sqrt[3]{262,144}$

24.  $\sqrt[3]{1728}$

25. A cube has a volume of  $145 \text{ cm}^3$ . To the nearest ten-thousandth, what is the length of a side?

26. A cube has a volume of  $345 \text{ ft}^3$ . What is the length of a side?

27. A cube has a volume of  $12 \text{ cm}^3$ . What is the length of a side?

28. A cube has a volume of  $10,000 \text{ ft}^3$ . What is the length of a side?

29. A cube has a volume of  $500 \text{ cm}^3$ . What is the length of a side?

30. A square has an area of  $55 \text{ in.}^2$ . What is the length of a side?