

## Exponents and Square Roots - 2

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Evaluate the expression.

1)  $(-10)^4$                       A) 40                      B) -40                      C) 10,000                      D) -10,000                      1) \_\_\_\_\_

2)  $-6^2$                       A) -12                      B) 36                      C) -64                      D) -36                      2) \_\_\_\_\_

3)  $\left(-\frac{1}{3}\right)^2$                       A)  $\frac{1}{9}$                       B) -9                      C)  $-\frac{1}{9}$                       D) 9                      3) \_\_\_\_\_

4)  $\left(\frac{4}{3}\right)^4$                       A)  $\frac{64}{27}$                       B)  $\frac{256}{81}$                       C)  $\frac{1024}{243}$                       D)  $\frac{256}{3}$                       4) \_\_\_\_\_

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

5)  $-10^5$                       5) \_\_\_\_\_

Find the square root. If it is not a real number, say so.

6)  $\sqrt{64}$                       6) \_\_\_\_\_

7)  $\sqrt{-64}$                       7) \_\_\_\_\_

8)  $\sqrt{0.16}$                       8) \_\_\_\_\_

9)  $\sqrt{289}$                       9) \_\_\_\_\_

10)  $\sqrt{\frac{16}{49}}$                       10) \_\_\_\_\_

11)  $\sqrt{\frac{1}{36}}$                       11) \_\_\_\_\_

Find all square roots of the given number.

12) 49                      12) \_\_\_\_\_

13) 9                      13) \_\_\_\_\_

## Answer Key

Testname: UNTITLED1

- 1) C
- 2) D
- 3) A
- 4) B
- 5) -100,000
- 6) 8
- 7) Not a real number
- 8) 0.4
- 9) 17
- 10)  $\frac{4}{7}$
- 11)  $\frac{1}{6}$
- 12)  $\pm 7$
- 13)  $\pm 3$