

## Exponents and Square Roots - 3

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

Find all square roots of the given number.

1) 49

1) \_\_\_\_\_

2) 16

2) \_\_\_\_\_

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

Evaluate the expression.

3)  $\left(-\frac{1}{4}\right)^2$

3) \_\_\_\_\_

A) -16

B) 16

C)  $\frac{1}{16}$

D)  $-\frac{1}{16}$

4)  $-5^2$

4) \_\_\_\_\_

A) -32

B) -25

C) -10

D) 25

5)  $(-9)^2$

5) \_\_\_\_\_

A) -18

B) 18

C) -81

D) 81

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

6)  $-10^5$

6) \_\_\_\_\_

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

7)  $\left(\frac{3}{4}\right)^3$

7) \_\_\_\_\_

A)  $\frac{27}{64}$

B)  $\frac{9}{16}$

C)  $\frac{27}{4}$

D)  $\frac{81}{256}$

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

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

8)  $\sqrt{441}$

8) \_\_\_\_\_

9)  $\sqrt{0.64}$

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

10)  $\sqrt{\frac{1}{100}}$

10) \_\_\_\_\_

11)  $\sqrt{100}$

11) \_\_\_\_\_

12)  $\sqrt{-144}$

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

13)  $\sqrt{\frac{121}{225}}$

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

## Answer Key

Testname: UNTITLED1

- 1)  $\pm 7$
- 2)  $\pm 4$
- 3) C
- 4) B
- 5) D
- 6) -100,000
- 7) A
- 8) 21
- 9) 0.8
- 10)  $\frac{1}{10}$
- 11) 10
- 12) Not a real number
- 13)  $\frac{11}{15}$