



## Writing Expressions using Exponents

Grade 6 Exponents Worksheet

Date: \_\_\_\_\_

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

### LET'S MAKE LEARNING FUN

Write the following expressions using exponents.

#### Example 1: Write this expression using exponents

$$9 \times 9 \times 9 = 9^3$$

That is,

$$9 \times 9 \times 9 \text{ is written as } 9^3.$$

- $(-2.01) \times (-2.01) \times (-2.01) \times (-2.01) = \underline{\hspace{2cm}}$
- $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = \underline{\hspace{2cm}}$
- $3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 = \underline{\hspace{2cm}}$
- $(-8) \times (-8) \times (-8) \times (-8) \times (-8) \times (-8) \times (-8) = \underline{\hspace{2cm}}$
- $(-\frac{12}{11}) \times (-\frac{12}{11}) \times (-\frac{12}{11}) \times (-\frac{12}{11}) \times (-\frac{12}{11}) \times (-\frac{12}{11}) = \underline{\hspace{2cm}}$
- $(8.25) \times (8.25) \times (8.25) \times (8.25) \times (8.25) = \underline{\hspace{2cm}}$
- $(-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) = \underline{\hspace{2cm}}$
- $95 \times 95 \times 95 \times 95 \times 95 \times 95 \times 95 \times 95 \times 95 = \underline{\hspace{2cm}}$
- $(-31) \times (-31) \times (-31) \times (-31) \times (-31) \times (-31) \times (-31) = \underline{\hspace{2cm}}$
- $35 \times 35 \times 35 \times 35 = \underline{\hspace{2cm}}$
- $16 \times 16 \times 16 \times 16 \times 16 \times 16 \times 16 = \underline{\hspace{2cm}}$
- $4.01 \times 4.01 \times 4.01 \times 4.01 \times 4.01 \times 4.01 \times 4.01 \times 4.01 = \underline{\hspace{2cm}}$

## Writing Expressions using Exponents

Grade 6 Exponents Answer sheet

1.  $(-2.01) \times (-2.01) \times (-2.01) \times (-2.01) = \underline{(-2.01)^4}$

2.  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = \underline{2^{16}}$

3.  $3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 \times 3.2 = \underline{3.2^{11}}$

4.  $(-8) \times (-8) \times (-8) \times (-8) \times (-8) \times (-8) \times (-8) = \underline{(-8)^7}$

5.  $(-\frac{12}{11}) \times (-\frac{12}{11}) \times (-\frac{12}{11}) \times (-\frac{12}{11}) \times (-\frac{12}{11}) \times (-\frac{12}{11}) = \underline{(-\frac{12}{11})^6}$

6.  $(8.25) \times (8.25) \times (8.25) \times (8.25) \times (8.25) = \underline{(8.25)^5}$

7.  $(-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) \times (-\frac{12}{7}) = \underline{(-\frac{12}{7})^7}$

8.  $95 \times 95 \times 95 \times 95 \times 95 \times 95 \times 95 \times 95 \times 95 = \underline{(95)^9}$

9.  $(-31) \times (-31) \times (-31) \times (-31) \times (-31) \times (-31) \times (-31) = \underline{(-31)^7}$

10.  $35 \times 35 \times 35 \times 35 = \underline{35^4}$

11.  $16 \times 16 \times 16 \times 16 \times 16 \times 16 \times 16 = \underline{16^7}$

12.  $4.01 \times 4.01 \times 4.01 \times 4.01 \times 4.01 \times 4.01 \times 4.01 \times 4.01 = \underline{(4.01)^8}$