



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

$$7 \times 7 \times 7 = 7^3$$

That is,

$$7 \times 7 \times 7 \text{ is written as } 7^3.$$

- $1.4 \times 1.4 \times 1.4 \times 1.4 \times 1.4 \times 1.4 \times 1.4 \times 1.4 = \underline{\hspace{2cm}}$
- $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = \underline{\hspace{2cm}}$
- $5.47 \times 5.47 \times 5.47 \times 5.47 \times 5.47 \times 5.47 \times 5.47 \times 5.47 = \underline{\hspace{2cm}}$
- $(-3) \times (-3) \times (-3) \times (-3) \times (-3) = \underline{\hspace{2cm}}$
- $2.4 \times 2.4 \times 2.4 \times 2.4 \times 2.4 \times 2.4 \times 2.4 \times 2.4 = \underline{\hspace{2cm}}$
- $(-1.25) \times (-1.25) \times (-1.25) \times (-1.25) \times (-1.25) = \underline{\hspace{2cm}}$
- $(-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) = \underline{\hspace{2cm}}$
- $43 \times 43 \times 43 \times 43 = \underline{\hspace{2cm}}$
- $(-10) \times (-10) \times (-10) \times (-10) \times (-10) \times (-10) \times (-10) = \underline{\hspace{2cm}}$
- $5 \times 5 \times 5 \times 5 \times 5 = \underline{\hspace{2cm}}$
- $(-1.4) \times (-1.4) \times (-1.4) \times (-1.4) \times (-1.4) \times (-1.4) = \underline{\hspace{2cm}}$
- $\frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} = \underline{\hspace{2cm}}$

Writing Expressions using Exponents

Grade 6 Exponents Answer sheet

1. $1.4 \times 1.4 \times 1.4 \times 1.4 \times 1.4 \times 1.4 \times 1.4 \times 1.4 = \underline{1.4^8}$

2. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = \underline{2^{15}}$

3. $5.47 \times 5.47 \times 5.47 \times 5.47 \times 5.47 \times 5.47 \times 5.47 \times 5.47 = \underline{5.47^8}$

4. $(-3) \times (-3) \times (-3) \times (-3) \times (-3) = \underline{(-3)^5}$

5. $2.4 \times 2.4 \times 2.4 \times 2.4 \times 2.4 \times 2.4 \times 2.4 \times 2.4 = \underline{2.4^8}$

6. $(-1.25) \times (-1.25) \times (-1.25) \times (-1.25) \times (-1.25) = \underline{(-1.25)^5}$

7. $(-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) \times (-\frac{2}{3}) = \underline{(-\frac{2}{3})^7}$

8. $43 \times 43 \times 43 \times 43 = \underline{43^4}$

9. $(-10) \times (-10) \times (-10) \times (-10) \times (-10) \times (-10) \times (-10) = \underline{(-10)^7}$

10. $5 \times 5 \times 5 \times 5 \times 5 = \underline{5^5}$

11. $(-1.4) \times (-1.4) \times (-1.4) \times (-1.4) \times (-1.4) \times (-1.4) = \underline{(-1.4)^6}$

12. $\frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} = \underline{(\frac{1}{5})^6}$