

Identify the base and exponent in each expression.

1 $\left(-\frac{1}{5}\right)^{-3}$

Identify the base and exponent in each expression.

2 -0.92^4

Tell whether each statement is correct. If it is incorrect, state the reason.

3 $-0.7^3 = -0.7 \cdot 0.7 \cdot 0.7$

Tell whether each statement is correct. If it is incorrect, state the reason.

4 $5^{-4} = (-5) \cdot (-5) \cdot (-5) \cdot (-5)$

Write in exponential notation.

5 $2 \cdot 2 \cdot 2 \cdot 2$

Write in exponential notation.

6 $4.8 \cdot 4.8$

Write in exponential notation.

7 $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

Write in exponential notation.

8 $c \cdot c \cdot c \cdot c \cdot c \cdot c$

Write in exponential notation.

9 $\frac{3}{4}k \cdot \frac{3}{4}k \cdot \frac{3}{4}k \cdot \frac{3}{4}k$

Write in exponential notation.

10 $(-1.2)(-1.2)(-1.2)(-1.2)$

Write the prime factorization of each number in exponential notation.

11 3,780

Write the prime factorization of each number in exponential notation.

12 27,720

Expand and evaluate each expressions.

13 $(-6)^2$

Expand and evaluate each expressions.

14 1.1^2

Expand and evaluate each expressions.

15 10^5

Expand and evaluate each expressions.

16 $\left(\frac{2}{3}\right)^3$

Simplify each expression. Write your answer using a positive exponent.

$$17 \quad (-3)^{-1} \cdot (-3)^0$$

Simplify each expression. Write your answer using a positive exponent.

$$18 \quad \left(\frac{5}{6}\right)^4 \cdot \left(\frac{5}{6}\right)^3$$

Simplify each expression. Write your answer using a positive exponent.

$$19 \quad 5m^3n^4 \cdot 4m^5n^2$$

Simplify each expression. Write your answer using a positive exponent.

$$20 \quad \left(\frac{7}{8}\right) \div \left(\frac{7}{8}\right)^3$$

