

An expression using a base and an exponent is a \_\_\_\_\_.

An exponent tells the power of a number, or how many times that number is \_\_\_\_\_ times itself.

Label the different parts of the power shown below.

$$2^4$$

Identify the base and exponent in each expression.

a)  $1.2^6$

b)  $(-4)^5$

Do you think there is a difference between these two expressions?

$$-4^2 \text{ and } (-4)^2$$

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

a)  $2 \cdot 2 \cdot 2 = 6^2$

Expand and evaluate each expression.

Write in exponential notation.

a)  $2.5^3$

a)  $5 \cdot 5 \cdot 5 \cdot 5$

b)  $(-3) \cdot (-3) \cdot (-3) \cdot (-3)$

b)  $\left(\frac{2}{3}\right)^5$

c)  $\left(\frac{1}{2}x\right) \cdot \left(\frac{1}{2}x\right) \cdot \left(\frac{1}{2}x\right)$

c)  $(-5)^2$