

Exponent Practice

Evaluate the following exponents:

$$(-6)^4 =$$

$$-3^5 =$$

$$12^3 =$$

$$(-2)^3 =$$

$$5^3 =$$

$$-4^6 =$$

Write as a single power and evaluate (the first one has been done for you):

$$\begin{aligned} 3^2 \times 3^4 &= 3^6 \\ &= 729 \end{aligned}$$

$$\begin{aligned} (-5)^3 \times (-5)^4 &= \\ &= \end{aligned}$$

$$\begin{aligned} -2^4 \times -2^6 &= \\ &= \end{aligned}$$

$$\begin{aligned} (-6)^5 \div (-6)^3 &= \\ &= \end{aligned}$$

$$\begin{aligned} 8^6 \div 8^3 &= \\ &= \end{aligned}$$

$$\begin{aligned} \frac{4^3}{4^2} &= \\ &= \end{aligned}$$

$$\begin{aligned} (4^2)^4 &= \\ &= \end{aligned}$$

$$\begin{aligned} (-3^3)^4 &= \\ &= \end{aligned}$$

$$\begin{aligned} (-2^5)^3 &= \\ &= \end{aligned}$$

$$-5^0 =$$

$$(-3)^0 =$$

$$15^0 =$$

Exponent Practice Answer Key

Evaluate the following exponents:

$$(-6)^4 = 1296$$

$$-3^5 = -243$$

$$12^3 = 1728$$

$$(-2)^3 = -8$$

$$5^3 = 125$$

$$-4^6 = -4096$$

Write as a single power and evaluate (the first one has been done for you):

$$\begin{aligned} 3^2 \times 3^4 &= 3^6 \\ &= 729 \end{aligned}$$

$$\begin{aligned} (-5)^3 \times (-5)^4 &= (-5)^7 \\ &= -78125 \end{aligned}$$

$$\begin{aligned} -2^4 \times -2^6 &= -2^{10} \\ &= -1024 \end{aligned}$$

$$\begin{aligned} (-6)^5 \div (-6)^3 &= (-6)^2 \\ &= 36 \end{aligned}$$

$$\begin{aligned} 8^6 \div 8^3 &= 8^3 \\ &= 512 \end{aligned}$$

$$\begin{aligned} \underline{4^3} &= 4^1 \\ 4^2 &= 4 \end{aligned}$$

$$\begin{aligned} (4^2)^4 &= 4^8 \\ &= 65536 \end{aligned}$$

$$\begin{aligned} (-3^3)^4 &= (-3)^{12} \\ &= 521441 \end{aligned}$$

$$\begin{aligned} (-2^5)^3 &= (-2)^{15} \\ &= -32768 \end{aligned}$$

$$-5^0 = -1$$

$$(-3)^0 = 1$$

$$15^0 = 1$$