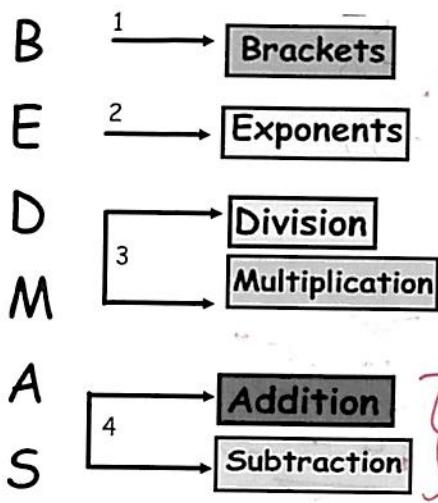


NOTES.

Order of Operations



} in the order they appear from left to right.

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Try These:

$$36 \div 9 - 8 + 21 \div 3 =$$

$\overbrace{4}^{\downarrow} - 8 + \overbrace{7}^{\downarrow}$
 $\overbrace{-4 + 7}^{\circlearrowleft}$
 $\circlearrowleft \underline{\underline{3}}$

$$(2 \times 3) + (14 \div 7) =$$

$\overbrace{6}^{\downarrow} + \overbrace{2}^{\downarrow}$
 $\circlearrowleft \underline{\underline{8}}$

$$(2 + 4)^2 + (13 + 24 \div 2) =$$

$\overbrace{6^2}^{\circlearrowleft} + (13 + \overbrace{12}^{\circlearrowleft})$
 $\overbrace{6^2 + 25}^{\circlearrowleft}$
 $\circlearrowleft \underline{\underline{61}}$

$$(-11) \cdot 8 + (-6) - (-7) =$$

$\overbrace{-88 + (-6)}^{\circlearrowleft} - (-7)$
 $\circlearrowleft \underline{\underline{-87}}$

Adding and Subtracting with Powers

a) $3^3 + 2^3$

$$\begin{array}{r} 27 \\ + 8 \\ \hline 35 \end{array}$$

b) $3 - 2^3$

$$\begin{array}{r} 3 \\ - 8 \\ \hline -5 \end{array}$$

c) $(3 + 2)^3$

$$\begin{array}{r} 3 \\ + 2 \\ \hline 5 \\ \times 3 \\ \hline 125 \end{array}$$

d) $(2 \times 4)^2 - 5^2$

$$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \\ \times 2 \\ \hline 64 \\ - 5 \\ \hline 39 \end{array}$$

Multiplying and Dividing with Powers

a) $[2 \times \underline{(-3)^3} - 6]^2$

$$\begin{array}{r} [2 \times (-27) - 6]^2 \\ \underline{[2 \times (-27)]}^2 \\ [-54 - 6]^2 \\ \underline{[-54]}^2 \\ [-60]^2 \end{array}$$

$$3600$$

b) $\underline{[(18^2 + 5^2)^0]} \div (-1)^3$

$$\begin{array}{r} 1 \div (-1)^3 \\ 1 \div \underline{(-1)}^3 \\ 1 \div (-1) \\ (-1) \end{array}$$