Lesson: Orders of Operations
BEDMAS is an acronym we can use to remember the order in which mathematical operations are to be performed.

Example 1: $4-(5-6)=4-(-1)$

$$
\begin{aligned}
& =4+(1) \\
& =5
\end{aligned}
$$

Example 2: $(3-6) \div(9-10)+(24-4) \div(-5)$

$$
\begin{aligned}
& =(-3) \div(-1)+(20) \div(-5) \\
& =(3)+(-4) \\
& =-1
\end{aligned}
$$

Example 3: $12-\left[18-(-1)^{2}+3\right]$

$$
\begin{aligned}
& =12-(18-(+1)+3) \\
& =12-(18-1+3) \\
& =12-(20) \\
& =12-20 \\
& =-8
\end{aligned}
$$

Let's Recap a Little About Exponents...


Complete the following chart:

| Power | Expanded (meaning) | Base | Exponent | Value |
| :--- | :--- | :--- | :--- | :--- |
| $2^{3}$ | $2 \times 2 \times 2$ | 2 | 3 | 8 |
| $(-3)^{5}$ | $(-3) \times(-3) \times(-3) \times(-3) \times(-3)$ | $(-3)$ | 5 | -243 |
| $3^{3}$ | $3 \times 3 \times 3$ | 3 | 3 | 27 |
| $(0.6)^{3}$ | $0.6 \times 0.6 \times 0.6$ | 0.6 | 3 | 0.216 |
| $(-9)^{2}$ | $(-9) \times(-9)$ | $(-9)$ | 2 | 81 |
| $\left(\frac{2}{5}\right)^{3}$ | $\left(\frac{2}{5}\right) \times\left(\frac{2}{5}\right) \times\left(\frac{2}{5}\right)$ | $(-1)$ | 2 | $\frac{8}{125}$ |
| $(-1)^{2}$ | $(-1) \times(-1)$ | -1 | 2 | -1 |
| $-1^{2}$ | $-1 \times 1$ |  |  | 3 |

Practice: Order of Operations


