



Order of Operations

$$\begin{aligned}
 &(11 + 45 - 4^2) \div (7 - 2) \\
 &(\underline{11 + 45 - 16}) \div (7 - 2) \\
 &(\underline{56 - 16}) \div (7 - 2) \\
 &\underline{40} \div (7 - 2) \\
 &\underline{40} \div \underline{5} \\
 &\quad \textcircled{8}
 \end{aligned}$$

$$\begin{aligned}
 &(9 + 4)^2 + (15 - 10 \div 2) \\
 &(\underline{9 + 4})^2 + (15 - \underline{5}) \\
 &(\underline{13})^2 + (15 - \underline{5}) \\
 &(\underline{13})^2 + (\underline{10}) \\
 &\underline{169} + \underline{10} \\
 &\quad \textcircled{179}
 \end{aligned}$$

$$\begin{aligned}
 &4 \times (5 \times 3 - 5^2) + 4 \\
 &4 \times (\underline{5 \times 3 - 25}) + 4 \\
 &4 \times (\underline{15 - 25}) + 4 \\
 &4 \times (\underline{-10}) + 4 \\
 &\underline{-40} + 4 \\
 &\quad \textcircled{-36}
 \end{aligned}$$

$$\begin{aligned}
 &(\underline{19 - 7}) \times (11 + 5) - 5^2 \\
 &\underline{12} \times (\underline{11 + 5}) - 5^2 \\
 &12 \times \underline{16} - \underline{5^2} \\
 &\underline{12 \times 16} - \underline{25} \\
 &\underline{192} - \underline{25} \\
 &\quad \textcircled{167}
 \end{aligned}$$

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1 2 3 4 5 6 7 8 9

$$\begin{array}{l}
 |-7 + 5|^2 + (12 + 14 \div 2) \\
 \underline{-2}^2 + (12 + 14 \div 2) \\
 2^2 + (12 + \underline{14 \div 2}) \\
 2^2 + (12 + \underline{7}) \\
 \underline{2^2} + 19 \\
 \underline{4} + 19 \\
 \underline{23}
 \end{array}$$

Using PEMDAS, the "P" stands for 'parenthesis'.

Parenthesis and other grouping symbols must be done first.

Absolute value symbols are considered grouping symbols and must be resolved left to right along with parenthesis.

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