

CLASSIC PEANUTS Charles Schulz


## Order Matters

Example 1: Evaluate. (Means to calculate a numerical answer)

$$
\begin{aligned}
& \text { a) } \begin{aligned}
& +2 \times 3 \\
= & 5+6 \\
= & 11
\end{aligned}
\end{aligned}
$$

b) $(\underbrace{5+2}) \times 3$
$=7 \times 3$
$=21$

$$
B E D M A S
$$

$$
\begin{aligned}
& \text { c) } 5+2 \times 3^{2}{ }^{2} \\
& =5+2 \times 9^{2} \\
& =5+18
\end{aligned}
$$

d) $(5+2 \times 3)^{2}$
$=(5+6)^{2}$
$=11^{2}$
$=121\{11 \times 11$



Communication:

- align equal signs vertically - one equal sign per line

Example 2: Evaluate each expression. BEDMAS OR $5-(-14)+\ldots$
a)

$$
\begin{aligned}
& 5-\underbrace{5 \times(-2)}+\underbrace{3 \times 5} \\
= & 5+14+15 \\
= & 34
\end{aligned}
$$

multiplication

$$
\text { c) } \begin{aligned}
& 4(3-7) \times(-1-(-5)) \\
= & 4(-4) \cdot(-1+5) \\
= & 4(-4)(4) \\
= & -16(4) \\
= & -64
\end{aligned}
$$

b) $5 \stackrel{+}{+-6) \div(-6) \cdot(-2)}$ Dot means
multiplication

$$
\begin{aligned}
& =5+\underbrace{6 \div(-6)} \cdot(-2) \\
& =5-1 \cdot(-2) \\
& =5+2 \\
& =7
\end{aligned}
$$

d) $3-(7-4)^{2} \times(-1)$

$$
\begin{aligned}
& =3-(3)^{2}(-1) \\
& =3-\underbrace{-9(-1)} \\
& =3+9 \\
& =12
\end{aligned}
$$

Example 3:
Evaluate each expression.
a) $5+(-12) \div(+4)$

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

$$
\text { c) } \begin{aligned}
& \frac{5-15}{(-2)}-1 \\
= & \frac{-10}{2}-1 \\
= & -5-1 \\
= & -6
\end{aligned}
$$

$$
\text { b) } \begin{aligned}
& \frac{4 \cdot 6-(5+3)}{(10 \div 2 \cdot 4) \div 5} \\
= & \frac{24-8}{(5 \cdot 4) \div 5} \\
= & \frac{16}{20 \div 5} \\
= & \frac{16}{4}
\end{aligned}
$$

d)

$$
\begin{aligned}
& 5+7[12-5(2)] \\
= & 5+7(12-10) \\
= & 5+7(2) \\
= & 5+14 \\
= & 19
\end{aligned}
$$

Example 4: Evaluate each of the expressions below. Write the sum of the answers in the box in the middle.


