## Order of Operations (H)

Name:
Date:
Simplify each expression using the correct order of operations.
$(10+7) \times 2^{2}$
$(6-5)^{2} \times 4$
$5^{2} \times 3+10$
$(8-5)^{2} \times 2$
$8 \div 2^{3}+6$
$4 \times(10-7)^{2}$
$4^{3}-8 \times 5$
$2 \times 6+4^{3}$
$8^{2} \div(5+3)$

$$
2^{3} \times(3+5)
$$

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$$
\begin{aligned}
& (\underline{10+7}) \times 2^{2} \\
& =17 \times \underline{2^{2}} \\
& =\underline{17 \times 4} \\
& =68
\end{aligned}
$$

$$
\begin{aligned}
& \left(\frac{6-5}{}\right)^{2} \times 4 \\
& =\underline{1}^{2} \times 4 \\
& =1 \times 4 \\
& =4
\end{aligned}
$$

$$
\begin{aligned}
& 5^{2} \times 3+10 \\
& =\underline{25 \times 3}+10 \\
& =75+10 \\
& =85
\end{aligned}
$$

$$
\begin{aligned}
& (\underline{8-5})^{2} \times 2 \\
& =\underline{3^{2}} \times 2 \\
& =\underline{9 \times 2} \\
& =18
\end{aligned}
$$

$$
8 \div \underline{2^{3}}+6
$$

$$
=\underline{8 \div 8}+6
$$

$$
=\underline{1+6}
$$

$$
=7
$$

$$
\begin{aligned}
& 4 \times(\underline{10-7})^{2} \\
& =4 \times \underline{3}^{2} \\
& =\underline{4 \times 9} \\
& =36
\end{aligned}
$$

$$
\begin{aligned}
& \underline{4^{3}}-8 \times 5 \\
& =64-\underline{8 \times 5} \\
& =\underline{64-40} \\
& =24
\end{aligned}
$$

$$
\begin{aligned}
& 2 \times 6+\underline{4^{3}} \\
& =\underline{2 \times 6}+64 \\
& =\underline{12+64} \\
& =76
\end{aligned}
$$

$$
\begin{aligned}
& 8^{2} \div(\underline{5+3}) \\
& =\underline{8^{2}} \div 8 \\
& =\underline{64 \div 8} \\
& =8
\end{aligned}
$$

$$
\begin{aligned}
& 2^{3} \times(\underline{3+5}) \\
& =2^{3} \times 8 \\
& =\underline{8 \times 8} \\
& =64
\end{aligned}
$$

