

Order of Operations (H)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(8 - 5 + 7) \div (10 \times (4 - 3)^3)$$

$$(8 \div (3 + 5 - 4)) \times (7 - 2^2)$$

$$(6^2 \div (7 - 4)^2) \times 9 + 2$$

$$8 \times (3 + 9) \div 2^2 - 10 + 6$$

$$5^2 \times ((3 + 6 - 9) \div 2)^3$$

$$9 + 3^3 - 2 \times (6 \div (10 \div 5))$$

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$$\begin{aligned} & (\underline{8-5} + 7) \div (10 \times (4-3)^3) \\ & = (\underline{3+7}) \div (10 \times (4-3)^3) \\ & = 10 \div (10 \times (\underline{4-3})^3) \\ & = 10 \div (10 \times \underline{1^3}) \\ & = 10 \div (\underline{10 \times 1}) \\ & = \underline{10 \div 10} \\ & = 1 \end{aligned}$$

$$\begin{aligned} & (8 \div (\underline{3+5} - 4)) \times (7 - 2^2) \\ & = (8 \div (\underline{8-4})) \times (7 - 2^2) \\ & = (\underline{8 \div 4}) \times (7 - 2^2) \\ & = 2 \times (7 - \underline{2^2}) \\ & = 2 \times (\underline{7-4}) \\ & = \underline{2 \times 3} \\ & = 6 \end{aligned}$$

$$\begin{aligned} & (6^2 \div (\underline{7-4})^2) \times 9 + 2 \\ & = (\underline{6^2} \div 3^2) \times 9 + 2 \\ & = (36 \div \underline{3^2}) \times 9 + 2 \\ & = (\underline{36 \div 9}) \times 9 + 2 \\ & = \underline{4 \times 9} + 2 \\ & = \underline{36 + 2} \\ & = 38 \end{aligned}$$

$$\begin{aligned} & 8 \times (\underline{3+9}) \div 2^2 - 10 + 6 \\ & = 8 \times 12 \div \underline{2^2} - 10 + 6 \\ & = \underline{8 \times 12} \div 4 - 10 + 6 \\ & = \underline{96 \div 4} - 10 + 6 \\ & = \underline{24 - 10} + 6 \\ & = \underline{14 + 6} \\ & = 20 \end{aligned}$$

$$\begin{aligned} & 5^2 \times ((\underline{3+6} - 9) \div 2)^3 \\ & = 5^2 \times ((\underline{9-9}) \div 2)^3 \\ & = 5^2 \times (\underline{0 \div 2})^3 \\ & = \underline{5^2} \times 0^3 \\ & = 25 \times \underline{0^3} \\ & = \underline{25 \times 0} \\ & = 0 \end{aligned}$$

$$\begin{aligned} & 9 + 3^3 - 2 \times (6 \div (\underline{10 \div 5})) \\ & = 9 + 3^3 - 2 \times (\underline{6 \div 2}) \\ & = 9 + \underline{3^3} - 2 \times 3 \\ & = 9 + 27 - \underline{2 \times 3} \\ & = \underline{9 + 27} - 6 \\ & = \underline{36 - 6} \\ & = 30 \end{aligned}$$