

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3^2 \div 9) \times (7 + 10 - 4)$$

$$(5 \times 4^2 + 3 - 9) \div 2$$

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

$$(7 \times 6) \div (8 + 2^3 - 10)$$

$$3 \times (8 - 2^3 \div 4 + 10)$$

$$(9 \div 3^2) \times 5 - 2 + 4$$

$$2^2 - 10 \div (7 + 3) \times 4$$

$$6 \times 7 \div (10 + 2^3 - 4)$$

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$$\begin{aligned} & (3^2 \div 9) \times (7 + 10 - 4) \\ & = (9 \div 9) \times (7 + 10 - 4) \\ & = 1 \times (7 + 10 - 4) \\ & = 1 \times (17 - 4) \\ & = 1 \times 13 \\ & = 13 \end{aligned}$$

$$\begin{aligned} & (5 \times 4^2 + 3 - 9) \div 2 \\ & = (5 \times 16 + 3 - 9) \div 2 \\ & = (80 + 3 - 9) \div 2 \\ & = (83 - 9) \div 2 \\ & = 74 \div 2 \\ & = 37 \end{aligned}$$

$$\begin{aligned} & (7^2 + 5) \div 2 - 3 \times 8 \\ & = (49 + 5) \div 2 - 3 \times 8 \\ & = 54 \div 2 - 3 \times 8 \\ & = 27 - 3 \times 8 \\ & = 27 - 24 \\ & = 3 \end{aligned}$$

$$\begin{aligned} & (7 \times 6) \div (8 + 2^3 - 10) \\ & = 42 \div (8 + 2^3 - 10) \\ & = 42 \div (8 + 8 - 10) \\ & = 42 \div (16 - 10) \\ & = 42 \div 6 \\ & = 7 \end{aligned}$$

$$\begin{aligned} & 3 \times (8 - 2^3 \div 4 + 10) \\ & = 3 \times (8 - 8 \div 4 + 10) \\ & = 3 \times (8 - 2 + 10) \\ & = 3 \times (6 + 10) \\ & = 3 \times 16 \\ & = 48 \end{aligned}$$

$$\begin{aligned} & (9 \div 3^2) \times 5 - 2 + 4 \\ & = (9 \div 9) \times 5 - 2 + 4 \\ & = 1 \times 5 - 2 + 4 \\ & = 5 - 2 + 4 \\ & = 3 + 4 \\ & = 7 \end{aligned}$$

$$\begin{aligned} & 2^2 - 10 \div (7 + 3) \times 4 \\ & = 2^2 - 10 \div 10 \times 4 \\ & = 4 - 10 \div 10 \times 4 \\ & = 4 - 1 \times 4 \\ & = 4 - 4 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & 6 \times 7 \div (10 + 2^3 - 4) \\ & = 6 \times 7 \div (10 + 8 - 4) \\ & = 6 \times 7 \div (18 - 4) \\ & = 6 \times 7 \div 14 \\ & = 42 \div 14 \\ & = 3 \end{aligned}$$