

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((5 - 3 + 7) \times 10) \div 9 - 4$$

$$7 \times 5 \div (4 + 10 - 9 + 2)$$

$$(8 \times 5) \div (10 + 7 - 9 - 3)$$

$$(8 - 3 + 9) \div 7 \times 10 + 4$$

$$(9 - 3 + 8 \times 5) \div 2 + 7$$

$$10 + 8 - 5 \times (6 \div (9 - 7))$$

$$2 \times 9 + 7 \div (4 - 3 + 6)$$

$$4 - 7 \times 9 \div (3 + 10 \times 6)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((5 - 3 + 7) \times 10) \div 9 - 4 \\ & = ((2 + 7) \times 10) \div 9 - 4 \\ & = (9 \times 10) \div 9 - 4 \\ & = 90 \div 9 - 4 \\ & = 10 - 4 \\ & = 6 \end{aligned}$$

$$\begin{aligned} & 7 \times 5 \div (4 + 10 - 9 + 2) \\ & = 7 \times 5 \div (14 - 9 + 2) \\ & = 7 \times 5 \div (5 + 2) \\ & = 7 \times 5 \div 7 \\ & = 35 \div 7 \\ & = 5 \end{aligned}$$

$$\begin{aligned} & (8 \times 5) \div (10 + 7 - 9 - 3) \\ & = 40 \div (10 + 7 - 9 - 3) \\ & = 40 \div (17 - 9 - 3) \\ & = 40 \div (8 - 3) \\ & = 40 \div 5 \\ & = 8 \end{aligned}$$

$$\begin{aligned} & (8 - 3 + 9) \div 7 \times 10 + 4 \\ & = (5 + 9) \div 7 \times 10 + 4 \\ & = 14 \div 7 \times 10 + 4 \\ & = 2 \times 10 + 4 \\ & = 20 + 4 \\ & = 24 \end{aligned}$$

$$\begin{aligned} & (9 - 3 + 8 \times 5) \div 2 + 7 \\ & = (9 - 3 + 40) \div 2 + 7 \\ & = (6 + 40) \div 2 + 7 \\ & = 46 \div 2 + 7 \\ & = 23 + 7 \\ & = 30 \end{aligned}$$

$$\begin{aligned} & 10 + 8 - 5 \times (6 \div (9 - 7)) \\ & = 10 + 8 - 5 \times (6 \div 2) \\ & = 10 + 8 - 5 \times 3 \\ & = 10 + 8 - 15 \\ & = 18 - 15 \\ & = 3 \end{aligned}$$

$$\begin{aligned} & 2 \times 9 + 7 \div (4 - 3 + 6) \\ & = 2 \times 9 + 7 \div (1 + 6) \\ & = 2 \times 9 + 7 \div 7 \\ & = 18 + 7 \div 7 \\ & = 18 + 1 \\ & = 19 \end{aligned}$$

$$\begin{aligned} & 4 - 7 \times 9 \div (3 + 10 \times 6) \\ & = 4 - 7 \times 9 \div (3 + 60) \\ & = 4 - 7 \times 9 \div 63 \\ & = 4 - 63 \div 63 \\ & = 4 - 1 \\ & = 3 \end{aligned}$$