

Order of Operations (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(6 \div 3) \times (9 + 10 - 2 + 5 - 7)$$

$$((7 - 4) \times 10) \div (2 + 9 - 8) \times 5$$

$$5 \times (10 - 8 + 6) \div ((7 + 9) \div 4)$$

$$((7 + 9) \div 2) \times 10 - 8 + 3 \times 6$$

$$(2 \times 7) \div (10 - 6 + 8 - 5) \times 3$$

$$5 \times 3 + 9 - 10 \div ((8 - 4) \div 2)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (6 \div 3) \times (9 + 10 - 2 + 5 - 7) \\ & = 2 \times (9 + 10 - 2 + 5 - 7) \\ & = 2 \times (19 - 2 + 5 - 7) \\ & = 2 \times (17 + 5 - 7) \\ & = 2 \times (22 - 7) \\ & = 2 \times 15 \\ & = 30 \end{aligned}$$

$$\begin{aligned} & ((7 - 4) \times 10) \div (2 + 9 - 8) \times 5 \\ & = (3 \times 10) \div (2 + 9 - 8) \times 5 \\ & = 30 \div (2 + 9 - 8) \times 5 \\ & = 30 \div (11 - 8) \times 5 \\ & = 30 \div 3 \times 5 \\ & = 10 \times 5 \\ & = 50 \end{aligned}$$

$$\begin{aligned} & 5 \times (10 - 8 + 6) \div ((7 + 9) \div 4) \\ & = 5 \times (2 + 6) \div ((7 + 9) \div 4) \\ & = 5 \times 8 \div ((7 + 9) \div 4) \\ & = 5 \times 8 \div (16 \div 4) \\ & = 5 \times 8 \div 4 \\ & = 40 \div 4 \\ & = 10 \end{aligned}$$

$$\begin{aligned} & ((7 + 9) \div 2) \times 10 - 8 + 3 \times 6 \\ & = (16 \div 2) \times 10 - 8 + 3 \times 6 \\ & = 8 \times 10 - 8 + 3 \times 6 \\ & = 80 - 8 + 3 \times 6 \\ & = 80 - 8 + 18 \\ & = 72 + 18 \\ & = 90 \end{aligned}$$

$$\begin{aligned} & (2 \times 7) \div (10 - 6 + 8 - 5) \times 3 \\ & = 14 \div (10 - 6 + 8 - 5) \times 3 \\ & = 14 \div (4 + 8 - 5) \times 3 \\ & = 14 \div (12 - 5) \times 3 \\ & = 14 \div 7 \times 3 \\ & = 2 \times 3 \\ & = 6 \end{aligned}$$

$$\begin{aligned} & 5 \times 3 + 9 - 10 \div ((8 - 4) \div 2) \\ & = 5 \times 3 + 9 - 10 \div (4 \div 2) \\ & = 5 \times 3 + 9 - 10 \div 2 \\ & = 15 + 9 - 10 \div 2 \\ & = 15 + 9 - 5 \\ & = 24 - 5 \\ & = 19 \end{aligned}$$