

Order of Operations (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$(6^2 \div 4 - 7) \times (5 + 3)$$

$$5 \times (8 - 6 + 4^2) \div 9$$

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

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

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

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

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3^2 - 9) \div (8 \times 2 + 10) \\ & = (9 - 9) \div (8 \times 2 + 10) \\ & = 0 \div (8 \times 2 + 10) \\ & = 0 \div (16 + 10) \\ & = 0 \div 26 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & (6^2 \div 4 - 7) \times (5 + 3) \\ & = (36 \div 4 - 7) \times (5 + 3) \\ & = (9 - 7) \times (5 + 3) \\ & = 2 \times (5 + 3) \\ & = 2 \times 8 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & 5 \times (8 - 6 + 4^2) \div 9 \\ & = 5 \times (8 - 6 + 16) \div 9 \\ & = 5 \times (2 + 16) \div 9 \\ & = 5 \times 18 \div 9 \\ & = 90 \div 9 \\ & = 10 \end{aligned}$$

$$\begin{aligned} & 8 \times 4 \div (3^2 + 2 - 9) \\ & = 8 \times 4 \div (9 + 2 - 9) \\ & = 8 \times 4 \div (11 - 9) \\ & = 8 \times 4 \div 2 \\ & = 32 \div 2 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & (5 + 4 \times 3^2) \div (8 - 7) \\ & = (5 + 4 \times 9) \div (8 - 7) \\ & = (5 + 36) \div (8 - 7) \\ & = 41 \div (8 - 7) \\ & = 41 \div 1 \\ & = 41 \end{aligned}$$

$$\begin{aligned} & (2^2 \times (10 - 5)) \div 4 + 7 \\ & = (2^2 \times 5) \div 4 + 7 \\ & = (4 \times 5) \div 4 + 7 \\ & = 20 \div 4 + 7 \\ & = 5 + 7 \\ & = 12 \end{aligned}$$

$$\begin{aligned} & 3 \times ((7 - 6 + 8) \div 9)^3 \\ & = 3 \times ((1 + 8) \div 9)^3 \\ & = 3 \times (9 \div 9)^3 \\ & = 3 \times 1^3 \\ & = 3 \times 1 \\ & = 3 \end{aligned}$$

$$\begin{aligned} & (7 \times 8) \div (3 + 9 - 10)^3 \\ & = 56 \div (3 + 9 - 10)^3 \\ & = 56 \div (12 - 10)^3 \\ & = 56 \div 2^3 \\ & = 56 \div 8 \\ & = 7 \end{aligned}$$