

Order of Operations (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$$(9 \div 3) \times (6 + 2^3 - 5 - 4)$$

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

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

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

Order of Operations (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 9 + 4 \div (10 - 2^3) \times 3^2 \\ & = 9 + 4 \div (10 - 8) \times 3^2 \\ & = 9 + 4 \div 2 \times 3^2 \\ & = 9 + 4 \div 2 \times 9 \\ & = 9 + 2 \times 9 \\ & = 9 + 18 \\ & = 27 \end{aligned}$$

$$\begin{aligned} & (3 \div (7 - 6)^2) \times (9 + 8 + 2) \\ & = (3 \div 1^2) \times (9 + 8 + 2) \\ & = (3 \div 1) \times (9 + 8 + 2) \\ & = 3 \times (9 + 8 + 2) \\ & = 3 \times (17 + 2) \\ & = 3 \times 19 \\ & = 57 \end{aligned}$$

$$\begin{aligned} & (9 \div 3) \times (6 + 2^3 - 5 - 4) \\ & = 3 \times (6 + 2^3 - 5 - 4) \\ & = 3 \times (6 + 8 - 5 - 4) \\ & = 3 \times (14 - 5 - 4) \\ & = 3 \times (9 - 4) \\ & = 3 \times 5 \\ & = 15 \end{aligned}$$

$$\begin{aligned} & (6 + 2^2 - 10) \div (3 \times (9 + 7)) \\ & = (6 + 4 - 10) \div (3 \times (9 + 7)) \\ & = (10 - 10) \div (3 \times (9 + 7)) \\ & = 0 \div (3 \times (9 + 7)) \\ & = 0 \div (3 \times 16) \\ & = 0 \div 48 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & ((6 + 5) \times 4) \div 2 - 7 - 3^2 \\ & = (11 \times 4) \div 2 - 7 - 3^2 \\ & = 44 \div 2 - 7 - 3^2 \\ & = 44 \div 2 - 7 - 9 \\ & = 22 - 7 - 9 \\ & = 15 - 9 \\ & = 6 \end{aligned}$$

$$\begin{aligned} & (4 \div 2)^3 \times 10 + 6 - 3^2 \\ & = 2^3 \times 10 + 6 - 3^2 \\ & = 8 \times 10 + 6 - 3^2 \\ & = 8 \times 10 + 6 - 9 \\ & = 80 + 6 - 9 \\ & = 86 - 9 \\ & = 77 \end{aligned}$$