

Order of Operations (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(9 + 6) \div (10 \times 4 - 5^2)$$

$$3^2 \times (8 + 4 - 6 \div 2)$$

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

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

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

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

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

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

Order of Operations (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (9 + 6) \div (10 \times 4 - 5^2) \\ &= 15 \div (10 \times 4 - 5^2) \\ &= 15 \div (10 \times 4 - 25) \\ &= 15 \div (40 - 25) \\ &= \underline{15 \div 15} \\ &= 1 \end{aligned}$$

$$\begin{aligned} & 3^2 \times (8 + 4 - 6 \div 2) \\ &= 3^2 \times (8 + 4 - 3) \\ &= 3^2 \times (12 - 3) \\ &= \underline{3^2} \times 9 \\ &= \underline{9 \times 9} \\ &= 81 \end{aligned}$$

$$\begin{aligned} & (2 \times 10 + 5 - 9) \div 4^2 \\ &= (20 + 5 - 9) \div 4^2 \\ &= (25 - 9) \div 4^2 \\ &= 16 \div \underline{4^2} \\ &= \underline{16 \div 16} \\ &= 1 \end{aligned}$$

$$\begin{aligned} & (2 + 9) \div (8 - 7)^2 \times 5 \\ &= 11 \div (8 - 7)^2 \times 5 \\ &= 11 \div \underline{1^2} \times 5 \\ &= \underline{11 \div 1} \times 5 \\ &= \underline{11 \times 5} \\ &= 55 \end{aligned}$$

$$\begin{aligned} & (8 - 5 + 3^2) \div 6 \times 10 \\ &= (8 - 5 + 9) \div 6 \times 10 \\ &= (3 + 9) \div 6 \times 10 \\ &= \underline{12 \div 6} \times 10 \\ &= \underline{2 \times 10} \\ &= 20 \end{aligned}$$

$$\begin{aligned} & 6 \div (5 + 4 - 8)^2 \times 2 \\ &= 6 \div (9 - 8)^2 \times 2 \\ &= 6 \div \underline{1^2} \times 2 \\ &= \underline{6 \div 1} \times 2 \\ &= \underline{6 \times 2} \\ &= 12 \end{aligned}$$

$$\begin{aligned} & (8 + 3^2 \div 9 - 6) \times 7 \\ &= (8 + 9 \div 9 - 6) \times 7 \\ &= (8 + 1 - 6) \times 7 \\ &= (9 - 6) \times 7 \\ &= \underline{3 \times 7} \\ &= 21 \end{aligned}$$

$$\begin{aligned} & ((2 + 6 - 8) \times 4)^2 \div 9 \\ &= ((8 - 8) \times 4)^2 \div 9 \\ &= (0 \times 4)^2 \div 9 \\ &= \underline{0^2} \div 9 \\ &= \underline{0 \div 9} \\ &= 0 \end{aligned}$$