

Order of Operations (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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$$\begin{aligned} & (8 \div (7 + 3 - 6))^2 \times 9 \\ & = (8 \div (10 - 6))^2 \times 9 \\ & = (8 \div 4)^2 \times 9 \\ & = 2^2 \times 9 \\ & = 4 \times 9 \\ & = 36 \end{aligned}$$

$$\begin{aligned} & ((2 + 3 - 5)^2 \div 9) \times 10 \\ & = ((5 - 5)^2 \div 9) \times 10 \\ & = (0^2 \div 9) \times 10 \\ & = (0 \div 9) \times 10 \\ & = 0 \times 10 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & (10 \div (6 - 4)) \times 2 + 3^3 \\ & = (10 \div 2) \times 2 + 3^3 \\ & = 5 \times 2 + 3^3 \\ & = 5 \times 2 + 27 \\ & = 10 + 27 \\ & = 37 \end{aligned}$$

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

$$\begin{aligned} & (3 \times 5 + 9^2) \div (10 - 6) \\ & = (3 \times 5 + 81) \div (10 - 6) \\ & = (15 + 81) \div (10 - 6) \\ & = 96 \div (10 - 6) \\ & = 96 \div 4 \\ & = 24 \end{aligned}$$

$$\begin{aligned} & (3 \times 5^2 - 7 + 4) \div 6 \\ & = (3 \times 25 - 7 + 4) \div 6 \\ & = (75 - 7 + 4) \div 6 \\ & = (68 + 4) \div 6 \\ & = 72 \div 6 \\ & = 12 \end{aligned}$$

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

$$\begin{aligned} & 3 \div (5 - 4)^2 \times 10 + 9 \\ & = 3 \div 1^2 \times 10 + 9 \\ & = 3 \div 1 \times 10 + 9 \\ & = 3 \times 10 + 9 \\ & = 30 + 9 \\ & = 39 \end{aligned}$$