

Order of Operations (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$$7 + 3 \times 8 \div (10 - 2^3) \div 4$$

$$6 \div (2^2 + 3 - 4) \times (8 + 9)$$

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

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$$\begin{aligned} & (6^2 \div 9) \times (2^3 + 3 - 4) \\ & = (36 \div 9) \times (2^3 + 3 - 4) \\ & = 4 \times (2^3 + 3 - 4) \\ & = 4 \times (8 + 3 - 4) \\ & = 4 \times (11 - 4) \\ & = 4 \times 7 \\ & = 28 \end{aligned}$$

$$\begin{aligned} & (5 - 3)^2 \times 10 \div 4 + 9^2 \\ & = 2^2 \times 10 \div 4 + 9^2 \\ & = 4 \times 10 \div 4 + 9^2 \\ & = 4 \times 10 \div 4 + 81 \\ & = 40 \div 4 + 81 \\ & = 10 + 81 \\ & = 91 \end{aligned}$$

$$\begin{aligned} & 9^2 - 8 \div (2^2 + 4) \times 10 \\ & = 9^2 - 8 \div (4 + 4) \times 10 \\ & = 9^2 - 8 \div 8 \times 10 \\ & = 81 - 8 \div 8 \times 10 \\ & = 81 - 1 \times 10 \\ & = 81 - 10 \\ & = 71 \end{aligned}$$

$$\begin{aligned} & 7 + 3 \times 8 \div (10 - 2^3) \div 4 \\ & = 7 + 3 \times 8 \div (10 - 8) \div 4 \\ & = 7 + 3 \times 8 \div 2 \div 4 \\ & = 7 + 24 \div 2 \div 4 \\ & = 7 + 12 \div 4 \\ & = 7 + 3 \\ & = 10 \end{aligned}$$

$$\begin{aligned} & 6 \div (2^2 + 3 - 4) \times (8 + 9) \\ & = 6 \div (4 + 3 - 4) \times (8 + 9) \\ & = 6 \div (7 - 4) \times (8 + 9) \\ & = 6 \div 3 \times (8 + 9) \\ & = 6 \div 3 \times 17 \\ & = 2 \times 17 \\ & = 34 \end{aligned}$$

$$\begin{aligned} & ((8 - 6)^3 \times 3) \div 2 + 9^2 \\ & = (2^3 \times 3) \div 2 + 9^2 \\ & = (8 \times 3) \div 2 + 9^2 \\ & = 24 \div 2 + 9^2 \\ & = 24 \div 2 + 81 \\ & = 12 + 81 \\ & = 93 \end{aligned}$$