

Order of Operations (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$$7 \div (10 - 6 + 3) \times (9^2 + 8)$$

$$6^2 \div (8 + 4 - 2^3) \times 7$$

$$2^3 - 6 \times ((4 + 9) \div (8 + 5))$$

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

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$$\begin{aligned} & 10 \div (3^2 - 2^3 + 4) \times 7 \\ & = 10 \div (9 - 2^3 + 4) \times 7 \\ & = 10 \div (9 - 8 + 4) \times 7 \\ & = 10 \div (1 + 4) \times 7 \\ & = 10 \div 5 \times 7 \\ & = 2 \times 7 \\ & = 14 \end{aligned}$$

$$\begin{aligned} & (10 + 5^2) \times (9 - 3^2) \div 2 \\ & = (10 + 25) \times (9 - 3^2) \div 2 \\ & = 35 \times (9 - 3^2) \div 2 \\ & = 35 \times (9 - 9) \div 2 \\ & = 35 \times 0 \div 2 \\ & = 0 \div 2 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & 7 \div (10 - 6 + 3) \times (9^2 + 8) \\ & = 7 \div (4 + 3) \times (9^2 + 8) \\ & = 7 \div 7 \times (9^2 + 8) \\ & = 7 \div 7 \times (81 + 8) \\ & = 7 \div 7 \times 89 \\ & = 1 \times 89 \\ & = 89 \end{aligned}$$

$$\begin{aligned} & 6^2 \div (8 + 4 - 2^3) \times 7 \\ & = 6^2 \div (8 + 4 - 8) \times 7 \\ & = 6^2 \div (12 - 8) \times 7 \\ & = 6^2 \div 4 \times 7 \\ & = 36 \div 4 \times 7 \\ & = 9 \times 7 \\ & = 63 \end{aligned}$$

$$\begin{aligned} & 2^3 - 6 \times ((4 + 9) \div (8 + 5)) \\ & = 2^3 - 6 \times (13 \div (8 + 5)) \\ & = 2^3 - 6 \times (13 \div 13) \\ & = 2^3 - 6 \times 1 \\ & = 8 - 6 \times 1 \\ & = 8 - 6 \\ & = 2 \end{aligned}$$

$$\begin{aligned} & 9 + 6 - 10^2 \div (2^2 \times 5) \\ & = 9 + 6 - 10^2 \div (4 \times 5) \\ & = 9 + 6 - 10^2 \div 20 \\ & = 9 + 6 - 100 \div 20 \\ & = 9 + 6 - 5 \\ & = 15 - 5 \\ & = 10 \end{aligned}$$