

# Order of Operations (D)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

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

$$5^2 \times (8 + 4 - 10) \div 2$$

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

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

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

$$10^2 \div (9 - 5 + 7 \times 3)$$

$$(8 \times 5 - 10 + 4^3) \div 2$$

$$10 \div (9 + 3 - 7) \times 4^2$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (10 \div (6 + 5 - 9)) \times 4^2 \\ & = (10 \div (11 - 9)) \times 4^2 \\ & = (10 \div 2) \times 4^2 \\ & = 5 \times 4^2 \\ & = 5 \times 16 \\ & = 80 \end{aligned}$$

$$\begin{aligned} & 5^2 \times (8 + 4 - 10) \div 2 \\ & = 5^2 \times (12 - 10) \div 2 \\ & = 5^2 \times 2 \div 2 \\ & = 25 \times 2 \div 2 \\ & = 50 \div 2 \\ & = 25 \end{aligned}$$

$$\begin{aligned} & (9 \times 10) \div 5 - 2 + 3^2 \\ & = 90 \div 5 - 2 + 3^2 \\ & = 90 \div 5 - 2 + 9 \\ & = 18 - 2 + 9 \\ & = 16 + 9 \\ & = 25 \end{aligned}$$

$$\begin{aligned} & (5 \div (8 + 3 - 10)^2) \times 2 \\ & = (5 \div (11 - 10)^2) \times 2 \\ & = (5 \div 1^2) \times 2 \\ & = (5 \div 1) \times 2 \\ & = 5 \times 2 \\ & = 10 \end{aligned}$$

$$\begin{aligned} & (6 \div 2)^2 \times (9 - 8 + 5) \\ & = 3^2 \times (9 - 8 + 5) \\ & = 3^2 \times (1 + 5) \\ & = 3^2 \times 6 \\ & = 9 \times 6 \\ & = 54 \end{aligned}$$

$$\begin{aligned} & 10^2 \div (9 - 5 + 7 \times 3) \\ & = 10^2 \div (9 - 5 + 21) \\ & = 10^2 \div (4 + 21) \\ & = 10^2 \div 25 \\ & = 100 \div 25 \\ & = 4 \end{aligned}$$

$$\begin{aligned} & (8 \times 5 - 10 + 4^3) \div 2 \\ & = (8 \times 5 - 10 + 64) \div 2 \\ & = (40 - 10 + 64) \div 2 \\ & = (30 + 64) \div 2 \\ & = 94 \div 2 \\ & = 47 \end{aligned}$$

$$\begin{aligned} & 10 \div (9 + 3 - 7) \times 4^2 \\ & = 10 \div (12 - 7) \times 4^2 \\ & = 10 \div 5 \times 4^2 \\ & = 10 \div 5 \times 16 \\ & = 2 \times 16 \\ & = 32 \end{aligned}$$