

# Order of Operations (B)

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

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

Simplify each expression using the correct order of operations.

$$4 \times (7 + 8 - 10)^2 \div 5^2$$

$$((7 - 5)^2 \div 2) \times (3 + 4 + 10)$$

$$(2 \times (5 + 4 - 9)^2)^3 \div 7$$

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

$$(6 \div 3) \times 9 + 7 - 4 + 8^2$$

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} &4 \times (7 + 8 - 10)^2 \div 5^2 \\ &= 4 \times (15 - 10)^2 \div 5^2 \\ &= 4 \times \underline{5^2} \div 5^2 \\ &= 4 \times 25 \div \underline{5^2} \\ &= \underline{4 \times 25} \div 25 \\ &= \underline{100 \div 25} \\ &= 4 \end{aligned}$$

$$\begin{aligned} &((7 - 5)^2 \div 2) \times (3 + 4 + 10) \\ &= (\underline{2^2} \div 2) \times (3 + 4 + 10) \\ &= (\underline{4 \div 2}) \times (3 + 4 + 10) \\ &= 2 \times (\underline{3 + 4} + 10) \\ &= 2 \times (\underline{7 + 10}) \\ &= \underline{2 \times 17} \\ &= 34 \end{aligned}$$

$$\begin{aligned} &(2 \times (5 + 4 - 9)^2)^3 \div 7 \\ &= (2 \times (\underline{9 - 9})^2)^3 \div 7 \\ &= (2 \times \underline{0^2})^3 \div 7 \\ &= (\underline{2 \times 0})^3 \div 7 \\ &= \underline{0^3} \div 7 \\ &= \underline{0 \div 7} \\ &= 0 \end{aligned}$$

$$\begin{aligned} &(2 \times 5)^2 \div (7 - 3 + 10 - 9) \\ &= 10^2 \div (\underline{7 - 3} + 10 - 9) \\ &= 10^2 \div (\underline{4 + 10} - 9) \\ &= 10^2 \div (\underline{14 - 9}) \\ &= \underline{10^2} \div 5 \\ &= \underline{100 \div 5} \\ &= 20 \end{aligned}$$

$$\begin{aligned} &(\underline{6 \div 3}) \times 9 + 7 - 4 + 8^2 \\ &= 2 \times 9 + 7 - 4 + \underline{8^2} \\ &= \underline{2 \times 9} + 7 - 4 + 64 \\ &= \underline{18 + 7} - 4 + 64 \\ &= \underline{25 - 4} + 64 \\ &= \underline{21 + 64} \\ &= 85 \end{aligned}$$

$$\begin{aligned} &(\underline{6^2} \div 9) \times 5^2 - 8 + 3 \\ &= (\underline{36 \div 9}) \times 5^2 - 8 + 3 \\ &= 4 \times \underline{5^2} - 8 + 3 \\ &= \underline{4 \times 25} - 8 + 3 \\ &= \underline{100 - 8} + 3 \\ &= \underline{92 + 3} \\ &= 95 \end{aligned}$$