

# Order of Operations (A)

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

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

Simplify each expression using the correct order of operations.

$$(9 - 2^2 + 10 \times 8) \div 5$$

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

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

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

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

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

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

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

# Order of Operations (A)

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

Simplify each expression using the correct order of operations.

$$\begin{aligned}(9 - 2^2 + 10 \times 8) \div 5 \\ &= (9 - 4 + 10 \times 8) \div 5 \\ &= (9 - 4 + 80) \div 5 \\ &= (5 + 80) \div 5 \\ &= 85 \div 5 \\ &= 17\end{aligned}$$

$$\begin{aligned}9 + 4 \times (3^3 - 7) \div 8 \\ &= 9 + 4 \times (27 - 7) \div 8 \\ &= 9 + 4 \times 20 \div 8 \\ &= 9 + 80 \div 8 \\ &= 9 + 10 \\ &= 19\end{aligned}$$

$$\begin{aligned}(4^2 \times 2) \div (10 - 5 + 3) \\ &= (16 \times 2) \div (10 - 5 + 3) \\ &= 32 \div (10 - 5 + 3) \\ &= 32 \div (5 + 3) \\ &= 32 \div 8 \\ &= 4\end{aligned}$$

$$\begin{aligned}(4^3 \div 2 + 7 - 8) \times 3 \\ &= (64 \div 2 + 7 - 8) \times 3 \\ &= (32 + 7 - 8) \times 3 \\ &= (39 - 8) \times 3 \\ &= 31 \times 3 \\ &= 93\end{aligned}$$

$$\begin{aligned}(5 \times 3 + 9) \div (4^2 - 10) \\ &= (15 + 9) \div (4^2 - 10) \\ &= 24 \div (4^2 - 10) \\ &= 24 \div (16 - 10) \\ &= 24 \div 6 \\ &= 4\end{aligned}$$

$$\begin{aligned}((9 + 3 - 8) \times 10) \div 2^2 \\ &= ((12 - 8) \times 10) \div 2^2 \\ &= (4 \times 10) \div 2^2 \\ &= 40 \div 2^2 \\ &= 40 \div 4 \\ &= 10\end{aligned}$$

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

$$\begin{aligned}(9 + 5 - 6) \times (4^3 \div 8) \\ &= (14 - 6) \times (4^3 \div 8) \\ &= 8 \times (4^3 \div 8) \\ &= 8 \times (64 \div 8) \\ &= 8 \times 8 \\ &= 64\end{aligned}$$

## Order of Operations (B)

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

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

Simplify each expression using the correct order of operations.

$$(7 + 5^2 - 8) \times (6 \div 3)$$

$$10^2 - 6 \times (8 \div (5 + 3))$$

$$(5 \times (3 + 9 - 8)^2) \div 10$$

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

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

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

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

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

# Order of Operations (B)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned}(7 + 5^2 - 8) \times (6 \div 3) \\ &= (7 + 25 - 8) \times (6 \div 3) \\ &= (32 - 8) \times (6 \div 3) \\ &= 24 \times (6 \div 3) \\ &= 24 \times 2 \\ &= 48\end{aligned}$$

$$\begin{aligned}10^2 - 6 \times (8 \div (5 + 3)) \\ &= 10^2 - 6 \times (8 \div 8) \\ &= 10^2 - 6 \times 1 \\ &= 100 - 6 \times 1 \\ &= 100 - 6 \\ &= 94\end{aligned}$$

$$\begin{aligned}(5 \times (3 + 9 - 8)^2) \div 10 \\ &= (5 \times (12 - 8)^2) \div 10 \\ &= (5 \times 4^2) \div 10 \\ &= (5 \times 16) \div 10 \\ &= 80 \div 10 \\ &= 8\end{aligned}$$

$$\begin{aligned}10 - 9 + 6 \times (4^2 \div 2) \\ &= 10 - 9 + 6 \times (16 \div 2) \\ &= 10 - 9 + 6 \times 8 \\ &= 10 - 9 + 48 \\ &= 1 + 48 \\ &= 49\end{aligned}$$

$$\begin{aligned}(10 + 5) \div (6 - 3) \times 2^3 \\ &= 15 \div (6 - 3) \times 2^3 \\ &= 15 \div 3 \times 2^3 \\ &= 5 \times 8 \\ &= 40\end{aligned}$$

$$\begin{aligned}(7 \times 2 + 10) \div (5 - 4)^3 \\ &= (14 + 10) \div (5 - 4)^3 \\ &= 24 \div (5 - 4)^3 \\ &= 24 \div 1^3 \\ &= 24 \div 1 \\ &= 24\end{aligned}$$

$$\begin{aligned}(10 \times 3^2) \div 2 + 6 - 8 \\ &= (10 \times 9) \div 2 + 6 - 8 \\ &= 90 \div 2 + 6 - 8 \\ &= 45 + 6 - 8 \\ &= 51 - 8 \\ &= 43\end{aligned}$$

$$\begin{aligned}(5 + 3^3 \div 9) \times 2 - 7 \\ &= (5 + 27 \div 9) \times 2 - 7 \\ &= (5 + 3) \times 2 - 7 \\ &= 8 \times 2 - 7 \\ &= 16 - 7 \\ &= 9\end{aligned}$$

# Order of Operations (C)

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

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

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

$$(7 \times 2) \div (5 + 4 - 8)^3$$

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

# Order of Operations (C)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3^2 \div 9) \times 7 + 4 - 5 \\ & = (9 \div 9) \times 7 + 4 - 5 \\ & = 1 \times 7 + 4 - 5 \\ & = 7 + 4 - 5 \\ & = 11 - 5 \\ & = 6 \end{aligned}$$

$$\begin{aligned} & 10 \div 5 \times (7 - 2 + 4^2) \\ & = 10 \div 5 \times (7 - 2 + 16) \\ & = 10 \div 5 \times (5 + 16) \\ & = 10 \div 5 \times 21 \\ & = 2 \times 21 \\ & = 42 \end{aligned}$$

$$\begin{aligned} & 7 + 9 \div (5 - 4) \times 2^2 \\ & = 7 + 9 \div 1 \times 2^2 \\ & = 7 + 9 \div 1 \times 4 \\ & = 7 + 9 \times 4 \\ & = 7 + 36 \\ & = 43 \end{aligned}$$

$$\begin{aligned} & (9 - 5 + 8) \div 4 \times 2^2 \\ & = (4 + 8) \div 4 \times 2^2 \\ & = 12 \div 4 \times 2^2 \\ & = 12 \div 4 \times 4 \\ & = 3 \times 4 \\ & = 12 \end{aligned}$$

$$\begin{aligned} & 4 + 6 \times 2 \div (9 - 8)^2 \\ & = 4 + 6 \times 2 \div 1^2 \\ & = 4 + 6 \times 2 \div 1 \\ & = 4 + 12 \div 1 \\ & = 4 + 12 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & 4 \times (9 \div 3 + 2^3 - 5) \\ & = 4 \times (9 \div 3 + 8 - 5) \\ & = 4 \times (3 + 8 - 5) \\ & = 4 \times (11 - 5) \\ & = 4 \times 6 \\ & = 24 \end{aligned}$$

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

$$\begin{aligned} & 2 + 4 \times 7 \div (6^2 - 8) \\ & = 2 + 4 \times 7 \div (36 - 8) \\ & = 2 + 4 \times 7 \div 28 \\ & = 2 + 28 \div 28 \\ & = 2 + 1 \\ & = 3 \end{aligned}$$

# Order of Operations (D)

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

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

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

# Order of Operations (D)

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

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

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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



# Order of Operations (E)

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

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

Simplify each expression using the correct order of operations.

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

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

$$(7^2 + 5) \div 2 - 3 \times 8$$

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

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

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

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

$$6 \times 7 \div (10 + 2^3 - 4)$$

# Order of Operations (E)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3^2 \div 9) \times (7 + 10 - 4) \\ & = (9 \div 9) \times (7 + 10 - 4) \\ & = 1 \times (7 + 10 - 4) \\ & = 1 \times (17 - 4) \\ & = 1 \times 13 \\ & = 13 \end{aligned}$$

$$\begin{aligned} & (5 \times 4^2 + 3 - 9) \div 2 \\ & = (5 \times 16 + 3 - 9) \div 2 \\ & = (80 + 3 - 9) \div 2 \\ & = (83 - 9) \div 2 \\ & = 74 \div 2 \\ & = 37 \end{aligned}$$

$$\begin{aligned} & (7^2 + 5) \div 2 - 3 \times 8 \\ & = (49 + 5) \div 2 - 3 \times 8 \\ & = 54 \div 2 - 3 \times 8 \\ & = 27 - 3 \times 8 \\ & = 27 - 24 \\ & = 3 \end{aligned}$$

$$\begin{aligned} & (7 \times 6) \div (8 + 2^3 - 10) \\ & = 42 \div (8 + 2^3 - 10) \\ & = 42 \div (8 + 8 - 10) \\ & = 42 \div (16 - 10) \\ & = 42 \div 6 \\ & = 7 \end{aligned}$$

$$\begin{aligned} & 3 \times (8 - 2^3 \div 4 + 10) \\ & = 3 \times (8 - 8 \div 4 + 10) \\ & = 3 \times (8 - 2 + 10) \\ & = 3 \times (6 + 10) \\ & = 3 \times 16 \\ & = 48 \end{aligned}$$

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

$$\begin{aligned} & 2^2 - 10 \div (7 + 3) \times 4 \\ & = 2^2 - 10 \div 10 \times 4 \\ & = 4 - 10 \div 10 \times 4 \\ & = 4 - 1 \times 4 \\ & = 4 - 4 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & 6 \times 7 \div (10 + 2^3 - 4) \\ & = 6 \times 7 \div (10 + 8 - 4) \\ & = 6 \times 7 \div (18 - 4) \\ & = 6 \times 7 \div 14 \\ & = 42 \div 14 \\ & = 3 \end{aligned}$$

# Order of Operations (F)

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

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

Simplify each expression using the correct order of operations.

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

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

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

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

$$(5 + 4 \times 3^2) \div (8 - 7)$$

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

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

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

# Order of Operations (F)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3^2 - 9) \div (8 \times 2 + 10) \\ & = (9 - 9) \div (8 \times 2 + 10) \\ & = 0 \div (8 \times 2 + 10) \\ & = 0 \div (16 + 10) \\ & = 0 \div 26 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & (6^2 \div 4 - 7) \times (5 + 3) \\ & = (36 \div 4 - 7) \times (5 + 3) \\ & = (9 - 7) \times (5 + 3) \\ & = 2 \times (5 + 3) \\ & = 2 \times 8 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & 5 \times (8 - 6 + 4^2) \div 9 \\ & = 5 \times (8 - 6 + 16) \div 9 \\ & = 5 \times (2 + 16) \div 9 \\ & = 5 \times 18 \div 9 \\ & = 90 \div 9 \\ & = 10 \end{aligned}$$

$$\begin{aligned} & 8 \times 4 \div (3^2 + 2 - 9) \\ & = 8 \times 4 \div (9 + 2 - 9) \\ & = 8 \times 4 \div (11 - 9) \\ & = 8 \times 4 \div 2 \\ & = 32 \div 2 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & (5 + 4 \times 3^2) \div (8 - 7) \\ & = (5 + 4 \times 9) \div (8 - 7) \\ & = (5 + 36) \div (8 - 7) \\ & = 41 \div (8 - 7) \\ & = 41 \div 1 \\ & = 41 \end{aligned}$$

$$\begin{aligned} & (2^2 \times (10 - 5)) \div 4 + 7 \\ & = (2^2 \times 5) \div 4 + 7 \\ & = (4 \times 5) \div 4 + 7 \\ & = 20 \div 4 + 7 \\ & = 5 + 7 \\ & = 12 \end{aligned}$$

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

$$\begin{aligned} & (7 \times 8) \div (3 + 9 - 10)^3 \\ & = 56 \div (3 + 9 - 10)^3 \\ & = 56 \div (12 - 10)^3 \\ & = 56 \div 2^3 \\ & = 56 \div 8 \\ & = 7 \end{aligned}$$

# Order of Operations (G)

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

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

Simplify each expression using the correct order of operations.

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

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

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

$$(2 + 9) \div (8 - 7)^2 \times 5$$

$$(8 - 5 + 3^2) \div 6 \times 10$$

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

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

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

# Order of Operations (G)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (9 + 6) \div (10 \times 4 - 5^2) \\ &= 15 \div (10 \times 4 - 5^2) \\ &= 15 \div (10 \times 4 - 25) \\ &= 15 \div (40 - 25) \\ &= \underline{15 \div 15} \\ &= 1 \end{aligned}$$

$$\begin{aligned} & 3^2 \times (8 + 4 - 6 \div 2) \\ &= 3^2 \times (8 + 4 - 3) \\ &= 3^2 \times (12 - 3) \\ &= \underline{3^2} \times 9 \\ &= \underline{9 \times 9} \\ &= 81 \end{aligned}$$

$$\begin{aligned} & (2 \times 10 + 5 - 9) \div 4^2 \\ &= (20 + 5 - 9) \div 4^2 \\ &= (25 - 9) \div 4^2 \\ &= 16 \div \underline{4^2} \\ &= \underline{16 \div 16} \\ &= 1 \end{aligned}$$

$$\begin{aligned} & (2 + 9) \div (8 - 7)^2 \times 5 \\ &= 11 \div (8 - 7)^2 \times 5 \\ &= 11 \div \underline{1^2} \times 5 \\ &= \underline{11 \div 1} \times 5 \\ &= \underline{11 \times 5} \\ &= 55 \end{aligned}$$

$$\begin{aligned} & (8 - 5 + 3^2) \div 6 \times 10 \\ &= (8 - 5 + 9) \div 6 \times 10 \\ &= (3 + 9) \div 6 \times 10 \\ &= \underline{12 \div 6} \times 10 \\ &= \underline{2 \times 10} \\ &= 20 \end{aligned}$$

$$\begin{aligned} & 6 \div (5 + 4 - 8)^2 \times 2 \\ &= 6 \div (9 - 8)^2 \times 2 \\ &= 6 \div \underline{1^2} \times 2 \\ &= \underline{6 \div 1} \times 2 \\ &= \underline{6 \times 2} \\ &= 12 \end{aligned}$$

$$\begin{aligned} & (8 + 3^2 \div 9 - 6) \times 7 \\ &= (8 + 9 \div 9 - 6) \times 7 \\ &= (8 + 1 - 6) \times 7 \\ &= (9 - 6) \times 7 \\ &= \underline{3 \times 7} \\ &= 21 \end{aligned}$$

$$\begin{aligned} & ((2 + 6 - 8) \times 4)^2 \div 9 \\ &= ((8 - 8) \times 4)^2 \div 9 \\ &= (0 \times 4)^2 \div 9 \\ &= \underline{0^2} \div 9 \\ &= \underline{0 \div 9} \\ &= 0 \end{aligned}$$

# Order of Operations (H)

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

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

Simplify each expression using the correct order of operations.

$$8 \times (10 + 5 - 6) \div 2^3$$

$$(7 - 5 + 6) \times (8 \div 2^2)$$

$$(7 - 5)^3 \times 6 \div 2 + 8$$

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

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

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

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

$$(7 + 4^3 \div 8 - 10) \times 9$$

# Order of Operations (H)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 8 \times (10 + 5 - 6) \div 2^3 \\ & = 8 \times (15 - 6) \div 2^3 \\ & = 8 \times 9 \div 2^3 \\ & = 8 \times 9 \div 8 \\ & = 72 \div 8 \\ & = 9 \end{aligned}$$

$$\begin{aligned} & (7 - 5 + 6) \times (8 \div 2^2) \\ & = (2 + 6) \times (8 \div 2^2) \\ & = 8 \times (8 \div 2^2) \\ & = 8 \times (8 \div 4) \\ & = 8 \times 2 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & (7 - 5)^3 \times 6 \div 2 + 8 \\ & = 2^3 \times 6 \div 2 + 8 \\ & = 8 \times 6 \div 2 + 8 \\ & = 48 \div 2 + 8 \\ & = 24 + 8 \\ & = 32 \end{aligned}$$

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

$$\begin{aligned} & ((9 + 5 - 6) \times 8) \div 4^3 \\ & = ((14 - 6) \times 8) \div 4^3 \\ & = (8 \times 8) \div 4^3 \\ & = 64 \div 4^3 \\ & = 64 \div 64 \\ & = 1 \end{aligned}$$

$$\begin{aligned} & (6 \div 3)^3 \times 9 + 5 - 4 \\ & = 2^3 \times 9 + 5 - 4 \\ & = 8 \times 9 + 5 - 4 \\ & = 72 + 5 - 4 \\ & = 77 - 4 \\ & = 73 \end{aligned}$$

$$\begin{aligned} & (2^2 + 8 \times 10) \div (7 - 6) \\ & = (4 + 8 \times 10) \div (7 - 6) \\ & = (4 + 80) \div (7 - 6) \\ & = 84 \div (7 - 6) \\ & = 84 \div 1 \\ & = 84 \end{aligned}$$

$$\begin{aligned} & (7 + 4^3 \div 8 - 10) \times 9 \\ & = (7 + 64 \div 8 - 10) \times 9 \\ & = (7 + 8 - 10) \times 9 \\ & = (15 - 10) \times 9 \\ & = 5 \times 9 \\ & = 45 \end{aligned}$$



# Order of Operations (I)

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

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

Simplify each expression using the correct order of operations.

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

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

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

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

$$5 + 7 \times (8 - 2^3) \div 4$$

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

$$8 \times (4^2 \div (6 - 5 + 7))$$

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

# Order of Operations (I)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (8 \div 2) \times (3^2 + 9 - 4) \\ & = 4 \times (3^2 + 9 - 4) \\ & = 4 \times (9 + 9 - 4) \\ & = 4 \times (18 - 4) \\ & = 4 \times 14 \\ & = 56 \end{aligned}$$

$$\begin{aligned} & 8 \div 2^3 \times (5 - 4 + 6) \\ & = 8 \div 2^3 \times (1 + 6) \\ & = 8 \div 2^3 \times 7 \\ & = 8 \div 8 \times 7 \\ & = 1 \times 7 \\ & = 7 \end{aligned}$$

$$\begin{aligned} & (4 - 2^2) \div (6 \times 9 + 5) \\ & = (4 - 4) \div (6 \times 9 + 5) \\ & = 0 \div (6 \times 9 + 5) \\ & = 0 \div (54 + 5) \\ & = 0 \div 59 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & 2^2 + 10 \times 6 \div (9 - 8) \\ & = 2^2 + 10 \times 6 \div 1 \\ & = 4 + 10 \times 6 \div 1 \\ & = 4 + 60 \div 1 \\ & = 4 + 60 \\ & = 64 \end{aligned}$$

$$\begin{aligned} & 5 + 7 \times (8 - 2^3) \div 4 \\ & = 5 + 7 \times (8 - 8) \div 4 \\ & = 5 + 7 \times 0 \div 4 \\ & = 5 + 0 \div 4 \\ & = 5 + 0 \\ & = 5 \end{aligned}$$

$$\begin{aligned} & (6 + 2 \times 5^2 - 8) \div 3 \\ & = (6 + 2 \times 25 - 8) \div 3 \\ & = (6 + 50 - 8) \div 3 \\ & = (56 - 8) \div 3 \\ & = 48 \div 3 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & 8 \times (4^2 \div (6 - 5 + 7)) \\ & = 8 \times (4^2 \div (1 + 7)) \\ & = 8 \times (4^2 \div 8) \\ & = 8 \times (16 \div 8) \\ & = 8 \times 2 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & (6 + 10 - 2^2) \times 8 \div 3 \\ & = (6 + 10 - 4) \times 8 \div 3 \\ & = (16 - 4) \times 8 \div 3 \\ & = 12 \times 8 \div 3 \\ & = 96 \div 3 \\ & = 32 \end{aligned}$$

# Order of Operations (J)

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

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

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

# Order of Operations (J)

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

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

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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