

Order of Operations (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(10 + 2 - 5) \times (6^2 \div (8 - 4))$$

$$10 + 8 - 6^2 \div (3^2 \times 4)$$

$$8 \div (10 - 9)^3 \times 7 + 4^2$$

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

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

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

Order of Operations (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (\underline{10 + 2} - 5) \times (6^2 \div (8 - 4)) \\ & = (\underline{12 - 5}) \times (6^2 \div (8 - 4)) \\ & = 7 \times (6^2 \div (\underline{8 - 4})) \\ & = 7 \times (\underline{6^2} \div 4) \\ & = 7 \times (\underline{36} \div 4) \\ & = \underline{7 \times 9} \\ & = 63 \end{aligned}$$

$$\begin{aligned} & 10 + 8 - 6^2 \div (\underline{3^2} \times 4) \\ & = 10 + 8 - 6^2 \div (\underline{9 \times 4}) \\ & = 10 + 8 - \underline{6^2} \div 36 \\ & = 10 + 8 - \underline{36} \div 36 \\ & = \underline{10 + 8} - 1 \\ & = \underline{18 - 1} \\ & = 17 \end{aligned}$$

$$\begin{aligned} & 8 \div (\underline{10 - 9})^3 \times 7 + 4^2 \\ & = 8 \div \underline{1^3} \times 7 + 4^2 \\ & = 8 \div 1 \times 7 + \underline{4^2} \\ & = \underline{8 \div 1} \times 7 + 16 \\ & = \underline{8 \times 7} + 16 \\ & = \underline{56 + 16} \\ & = 72 \end{aligned}$$

$$\begin{aligned} & (10 \times (\underline{6 + 4})) \div (2^3 - 7)^2 \\ & = (\underline{10 \times 10}) \div (2^3 - 7)^2 \\ & = 100 \div (\underline{2^3} - 7)^2 \\ & = 100 \div (\underline{8 - 7})^2 \\ & = 100 \div \underline{1^2} \\ & = \underline{100 \div 1} \\ & = 100 \end{aligned}$$

$$\begin{aligned} & (8 + \underline{5^2}) \times ((9 - 7)^2 \div 2) \\ & = (\underline{8 + 25}) \times ((9 - 7)^2 \div 2) \\ & = 33 \times ((\underline{9 - 7})^2 \div 2) \\ & = 33 \times (\underline{2^2} \div 2) \\ & = 33 \times (\underline{4 \div 2}) \\ & = \underline{33 \times 2} \\ & = 66 \end{aligned}$$

$$\begin{aligned} & (\underline{3 + 9}) \div 6 - 2 \times 8 \div 4^2 \\ & = 12 \div 6 - 2 \times 8 \div \underline{4^2} \\ & = \underline{12 \div 6} - 2 \times 8 \div 16 \\ & = 2 - \underline{2 \times 8} \div 16 \\ & = 2 - \underline{16 \div 16} \\ & = \underline{2 - 1} \\ & = 1 \end{aligned}$$

Order of Operations (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$$10 - 9 + 8 \times 6 \div (5 - 2^2)$$

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

$$(4 \div (10 - 6)) \times 7 + 2^2 + 5$$

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

Order of Operations (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 2 \times ((\underline{6-5} + 3)^2 \div 4^2) \\ & = 2 \times ((\underline{1+3})^2 \div 4^2) \\ & = 2 \times (\underline{4^2} \div 4^2) \\ & = 2 \times (\underline{16 \div 4^2}) \\ & = 2 \times (\underline{16 \div 16}) \\ & = \underline{2 \times 1} \\ & = 2 \end{aligned}$$

$$\begin{aligned} & (\underline{10 \times 8}) \div (7 - 2^2 + 5) \times 4 \\ & = 80 \div (7 - \underline{2^2} + 5) \times 4 \\ & = 80 \div (\underline{7-4} + 5) \times 4 \\ & = 80 \div (\underline{3+5}) \times 4 \\ & = \underline{80 \div 8} \times 4 \\ & = \underline{10 \times 4} \\ & = 40 \end{aligned}$$

$$\begin{aligned} & 10 - 9 + 8 \times 6 \div (5 - \underline{2^2}) \\ & = 10 - 9 + 8 \times 6 \div (\underline{5-4}) \\ & = 10 - 9 + \underline{8 \times 6} \div 1 \\ & = 10 - 9 + \underline{48 \div 1} \\ & = \underline{10-9} + 48 \\ & = \underline{1+48} \\ & = 49 \end{aligned}$$

$$\begin{aligned} & 3 \times (\underline{8-4})^2 \div 6 + 2 + 5 \\ & = 3 \times \underline{4^2} \div 6 + 2 + 5 \\ & = \underline{3 \times 16} \div 6 + 2 + 5 \\ & = \underline{48 \div 6} + 2 + 5 \\ & = \underline{8+2} + 5 \\ & = \underline{10+5} \\ & = 15 \end{aligned}$$

$$\begin{aligned} & (4 \div (\underline{10-6})) \times 7 + 2^2 + 5 \\ & = (\underline{4 \div 4}) \times 7 + 2^2 + 5 \\ & = 1 \times 7 + \underline{2^2} + 5 \\ & = \underline{1 \times 7} + 4 + 5 \\ & = \underline{7+4} + 5 \\ & = \underline{11+5} \\ & = 16 \end{aligned}$$

$$\begin{aligned} & 10 - 4 + 3^2 \times 6 \div (\underline{7+2}) \\ & = 10 - 4 + \underline{3^2} \times 6 \div 9 \\ & = 10 - 4 + \underline{9 \times 6} \div 9 \\ & = 10 - 4 + \underline{54 \div 9} \\ & = \underline{10-4} + 6 \\ & = \underline{6+6} \\ & = 12 \end{aligned}$$

Order of Operations (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$(2^3 \times (7 - 5)^3) \div 8 + 10$$

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

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

$$(10 - 6) \div 2 + 4^2 \times (9 - 7)$$

$$(8 - 2^3) \div 3 \times 10 + 7 - 5$$

Order of Operations (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\begin{aligned} & (2^3 \times (7 - 5)^3) \div 8 + 10 \\ &= (2^3 \times 2^3) \div 8 + 10 \\ &= (8 \times 2^3) \div 8 + 10 \\ &= (8 \times 8) \div 8 + 10 \\ &= 64 \div 8 + 10 \\ &= 8 + 10 \\ &= 18 \end{aligned}$$

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

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

$$\begin{aligned} & (10 - 6) \div 2 + 4^2 \times (9 - 7) \\ &= 4 \div 2 + 4^2 \times (9 - 7) \\ &= 4 \div 2 + 4^2 \times 2 \\ &= 4 \div 2 + 16 \times 2 \\ &= 2 + 16 \times 2 \\ &= 2 + 32 \\ &= 34 \end{aligned}$$

$$\begin{aligned} & (8 - 2^3) \div 3 \times 10 + 7 - 5 \\ &= (8 - 8) \div 3 \times 10 + 7 - 5 \\ &= 0 \div 3 \times 10 + 7 - 5 \\ &= 0 \times 10 + 7 - 5 \\ &= 0 + 7 - 5 \\ &= 7 - 5 \\ &= 2 \end{aligned}$$

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$$(10^2 \div (6 + 8 - 9)^2) \times 4$$

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

$$(10 \times 6) \div (4^2 - 5 + 3^2)$$

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

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 8 + 5 - 3 \times 2^3 \div (9 - 6) \\ & = 8 + 5 - 3 \times \underline{2^3} \div 3 \\ & = 8 + 5 - \underline{3 \times 8} \div 3 \\ & = 8 + 5 - \underline{24 \div 3} \\ & = \underline{8 + 5} - 8 \\ & = \underline{13 - 8} \\ & = 5 \end{aligned}$$

$$\begin{aligned} & (3^2 + 7 - 9) \times (4^3 \div 8) \\ & = (\underline{9 + 7 - 9}) \times (4^3 \div 8) \\ & = (\underline{16 - 9}) \times (4^3 \div 8) \\ & = 7 \times (\underline{4^3} \div 8) \\ & = 7 \times (\underline{64 \div 8}) \\ & = \underline{7 \times 8} \\ & = 56 \end{aligned}$$

$$\begin{aligned} & (10^2 \div (6 + 8 - 9)^2) \times 4 \\ & = (10^2 \div (\underline{14 - 9})^2) \times 4 \\ & = (\underline{10^2} \div 5^2) \times 4 \\ & = (100 \div \underline{5^2}) \times 4 \\ & = (\underline{100 \div 25}) \times 4 \\ & = \underline{4 \times 4} \\ & = 16 \end{aligned}$$

$$\begin{aligned} & (4 - 2^2) \times 3 \div 7 + 8^2 \\ & = (\underline{4 - 4}) \times 3 \div 7 + 8^2 \\ & = 0 \times 3 \div 7 + \underline{8^2} \\ & = \underline{0 \times 3} \div 7 + 64 \\ & = \underline{0 \div 7} + 64 \\ & = \underline{0 + 64} \\ & = 64 \end{aligned}$$

$$\begin{aligned} & (\underline{10 \times 6}) \div (4^2 - 5 + 3^2) \\ & = 60 \div (\underline{4^2} - 5 + 3^2) \\ & = 60 \div (16 - 5 + \underline{3^2}) \\ & = 60 \div (\underline{16 - 5} + 9) \\ & = 60 \div (\underline{11 + 9}) \\ & = \underline{60 \div 20} \\ & = 3 \end{aligned}$$

$$\begin{aligned} & (\underline{3^2} \times 4) \div 6 + 5^2 - 2 \\ & = (\underline{9 \times 4}) \div 6 + 5^2 - 2 \\ & = 36 \div 6 + \underline{5^2} - 2 \\ & = \underline{36 \div 6} + 25 - 2 \\ & = \underline{6 + 25} - 2 \\ & = \underline{31 - 2} \\ & = 29 \end{aligned}$$

Order of Operations (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 9 + 4 \div (10 - 2^3) \times 3^2 \\ & = 9 + 4 \div (10 - 8) \times 3^2 \\ & = 9 + 4 \div 2 \times 3^2 \\ & = 9 + 4 \div 2 \times 9 \\ & = 9 + 2 \times 9 \\ & = 9 + 18 \\ & = 27 \end{aligned}$$

$$\begin{aligned} & (3 \div (7 - 6)^2) \times (9 + 8 + 2) \\ & = (3 \div 1^2) \times (9 + 8 + 2) \\ & = (3 \div 1) \times (9 + 8 + 2) \\ & = 3 \times (9 + 8 + 2) \\ & = 3 \times (17 + 2) \\ & = 3 \times 19 \\ & = 57 \end{aligned}$$

$$\begin{aligned} & (9 \div 3) \times (6 + 2^3 - 5 - 4) \\ & = 3 \times (6 + 2^3 - 5 - 4) \\ & = 3 \times (6 + 8 - 5 - 4) \\ & = 3 \times (14 - 5 - 4) \\ & = 3 \times (9 - 4) \\ & = 3 \times 5 \\ & = 15 \end{aligned}$$

$$\begin{aligned} & (6 + 2^2 - 10) \div (3 \times (9 + 7)) \\ & = (6 + 4 - 10) \div (3 \times (9 + 7)) \\ & = (10 - 10) \div (3 \times (9 + 7)) \\ & = 0 \div (3 \times (9 + 7)) \\ & = 0 \div (3 \times 16) \\ & = 0 \div 48 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & ((6 + 5) \times 4) \div 2 - 7 - 3^2 \\ & = (11 \times 4) \div 2 - 7 - 3^2 \\ & = 44 \div 2 - 7 - 3^2 \\ & = 44 \div 2 - 7 - 9 \\ & = 22 - 7 - 9 \\ & = 15 - 9 \\ & = 6 \end{aligned}$$

$$\begin{aligned} & (4 \div 2)^3 \times 10 + 6 - 3^2 \\ & = 2^3 \times 10 + 6 - 3^2 \\ & = 8 \times 10 + 6 - 3^2 \\ & = 8 \times 10 + 6 - 9 \\ & = 80 + 6 - 9 \\ & = 86 - 9 \\ & = 77 \end{aligned}$$

Order of Operations (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$(2^3 \times (6 + 8 - 10)) \div 4^2$$

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

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

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

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

Order of Operations (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3^2 + 7 - 4^2) \div (6 \times 2) \\ &= (9 + 7 - 4^2) \div (6 \times 2) \\ &= (9 + 7 - 16) \div (6 \times 2) \\ &= (16 - 16) \div (6 \times 2) \\ &= 0 \div (6 \times 2) \\ &= 0 \div 12 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & (2^3 \times (6 + 8 - 10)) \div 4^2 \\ &= (2^3 \times (14 - 10)) \div 4^2 \\ &= (2^3 \times 4) \div 4^2 \\ &= (8 \times 4) \div 4^2 \\ &= 32 \div 4^2 \\ &= 32 \div 16 \\ &= 2 \end{aligned}$$

$$\begin{aligned} & 8 \div (2^2 + 7 - 9)^2 \times 5 \\ &= 8 \div (4 + 7 - 9)^2 \times 5 \\ &= 8 \div (11 - 9)^2 \times 5 \\ &= 8 \div 2^2 \times 5 \\ &= 8 \div 4 \times 5 \\ &= 2 \times 5 \\ &= 10 \end{aligned}$$

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

$$\begin{aligned} & 3^2 + 2 \div (6 - 5) \times 4^2 \\ &= 3^2 + 2 \div 1 \times 4^2 \\ &= 9 + 2 \div 1 \times 4^2 \\ &= 9 + 2 \div 1 \times 16 \\ &= 9 + 2 \times 16 \\ &= 9 + 32 \\ &= 41 \end{aligned}$$

$$\begin{aligned} & (9 \div (5 - 4)) \times 3 + 8^2 - 2 \\ &= (9 \div 1) \times 3 + 8^2 - 2 \\ &= 9 \times 3 + 8^2 - 2 \\ &= 9 \times 3 + 64 - 2 \\ &= 27 + 64 - 2 \\ &= 91 - 2 \\ &= 89 \end{aligned}$$

Order of Operations (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(8 - 5 + 7) \div (10 \times (4 - 3)^3)$$

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

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

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

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

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

Order of Operations (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$$\begin{aligned} & (6^2 \div (7 - 4)^2) \times 9 + 2 \\ &= (6^2 \div 3^2) \times 9 + 2 \\ &= (36 \div 3^2) \times 9 + 2 \\ &= (36 \div 9) \times 9 + 2 \\ &= 4 \times 9 + 2 \\ &= 36 + 2 \\ &= 38 \end{aligned}$$

$$\begin{aligned} & 8 \times (3 + 9) \div 2^2 - 10 + 6 \\ &= 8 \times 12 \div 2^2 - 10 + 6 \\ &= 8 \times 12 \div 4 - 10 + 6 \\ &= 96 \div 4 - 10 + 6 \\ &= 24 - 10 + 6 \\ &= 14 + 6 \\ &= 20 \end{aligned}$$

$$\begin{aligned} & 5^2 \times ((3 + 6 - 9) \div 2)^3 \\ &= 5^2 \times ((9 - 9) \div 2)^3 \\ &= 5^2 \times (0 \div 2)^3 \\ &= 5^2 \times 0^3 \\ &= 25 \times 0^3 \\ &= 25 \times 0 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & 9 + 3^3 - 2 \times (6 \div (10 \div 5)) \\ &= 9 + 3^3 - 2 \times (6 \div 2) \\ &= 9 + 3^3 - 2 \times 3 \\ &= 9 + 27 - 2 \times 3 \\ &= 9 + 27 - 6 \\ &= 36 - 6 \\ &= 30 \end{aligned}$$

Order of Operations (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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