Order of Operations (A)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (A) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(2^2 + (-9)) \div ((-10) - (-5)) \times (-2)$
$= (4 + (-9)) \div ((-10) - (-5)) \times (-2)$
$= (-5) \div ((-10) - (-5)) \times (-2)$
$= (-5) \div (-5) \times (-2)$
$= 1 \times (-2)$
$= -2$

$(-3)^2 \div 3 \times (5 - 10 + (-8))$
$= (-3)^2 \div 3 \times ((-5) + (-8))$
$= (-3)^2 \div 3 \times (-13)$
$= 9 \div 3 \times (-13)$
$= 3 \times (-13)$
$= -39$

$(-7) \times ((-8) - (-6) + 8 \div (-2)^3)$
$= (-7) \times ((-8) - (-6) + 8 \div (-8))$
$= (-7) \times ((-8) - (-6) + (-1))$
$= (-7) \times ((-2) + (-1))$
$= (-7) \times (-3)$
$= 21$

$(((9 - (-6)) \div (-5) + 5) \times 2^3$
$= ((15 \div (-5) + 5) \times 2^3$
$= ((-3) + 5) \times 2^3$
$= 2 \times 2^3$
$= 2 \times 8$
$= 16$

$(4 \div (2 - (-3) + (-9))) \times (-10)^2$
$= (4 \div (5 + (-9))) \times (-10)^2$
$= (4 \div (-4)) \times (-10)^2$
$= (-1) \times (-10)^2$
$= (-1) \times 100$
$= -100$

$((-10) + 2 - (-7)) \times ((-3)^2 \div 9)$
$= ((-8) - (-7)) \times ((-3)^2 \div 9)$
$= (-1) \times ((-3)^2 \div 9)$
$= (-1) \times (9 \div 9)$
$= (-1) \times 1$
$= -1$

Order of Operations (B)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

$(7 - 5)^3 \times 10 \div ((-2) + 6)$

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

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

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

$\left((10 - 7)^2 \times (-8)\right) \div 9 + 8$

Order of Operations (B) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

$= \left(6 + (-5) \div 5 - 49\right) \times 2$

$= \left(6 + (-1) - 49\right) \times 2$

$= (5 - 49) \times 2$

$= (-44) \times 2$

$= -88$

$(7 - 5)^3 \times 10 \div ((-2) + 6)$

$= 2^3 \times 10 \div \left((-2) + 6\right)$

$= 2^3 \times 10 \div 4$

$= 8 \times 10 \div 4$

$= 80 \div 4$

$= 20$

$\left(2 - 5 \times (-2) + (-9)\right)^2 \div 9$

$= \left(2 - (-10) + (-9)\right)^2 \div 9$

$= \left(12 + (-9)\right)^2 \div 9$

$= 3^2 \div 9$

$= 9 \div 9$

$= 1$

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

$= 3^3 \div (-3) \times \left((-7) + 5\right)$

$= 3^3 \div (-3) \times (-2)$

$= 27 \div (-3) \times (-2)$

$= (-9) \times (-2)$

$= 18$

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

$= \left((-8)^2 - (-6) \times 6\right) \div 5$

$= \left(64 - (-6) \times 6\right) \div 5$

$= \left(64 - (-36)\right) \div 5$

$= 100 \div 5$

$= 20$

$\left((10 - 7)^2 \times (-8)\right) \div 9 + 8$

$= \left(3^2 \times (-8)\right) \div 9 + 8$

$= \left(9 \times (-8)\right) \div 9 + 8$

$= (-72) \div 9 + 8$

$= (-8) + 8$

$= 0$

Order of Operations (C)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (C) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(4 + 5 \times 2^2) \div 3 - (-3)$
$= (4 + 5 \times 4) \div 3 - (-3)$
$= (4 + 20) \div 3 - (-3)$
$= 24 \div 3 - (-3)$
$= 8 - (-3)$
$= 11$

$(-5) \times (-7) + (-10)^2 \div (8 - 3)$
$= (-5) \times (-7) + (-10)^2 \div 5$
$= (-5) \times (-7) + 100 \div 5$
$= 35 + 100 \div 5$
$= 35 + 20$
$= 55$

$((-4) \times 2^3) \div 4 - 9 + 5$
$= \left((-4) \times 8\right) \div 4 - 9 + 5$
$= (-32) \div 4 - 9 + 5$
$= (-8) - 9 + 5$
$= (-17) + 5$
$= -12$

$\left(\left((-5) - (-9)\right) \times (-2) + 8\right)^3 \div 9$
$= \left(4 \times (-2) + 8\right)^3 \div 9$
$= \left((-8) + 8\right)^3 \div 9$
$= 0^3 \div 9$
$= 0 \div 9$
$= 0$

$\left(6 + 5 \times (-6) - (-4)^2\right) \div 4$
$= \left(6 + 5 \times (-6) - 16\right) \div 4$
$= \left(6 + (-30) - 16\right) \div 4$
$= \left((-24) - 16\right) \div 4$
$= (-40) \div 4$
$= -10$

$\left((-7) - (-2)^2 \times 2\right) \div ((-4) + 9)$
$= ((-7) - 4 \times 2) \div ((-4) + 9)$
$= \left((-7) - 8\right) \div ((-4) + 9)$
$= (-15) \div \left((-4) + 9\right)$
$= (-15) \div 5$
$= -3$

Order of Operations (D)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (D) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-7)-(-6)\right)^3 \times (7+2) \div (-3)$
$= (-1)^3 \times (7+2) \div (-3)$
$= (-1)^3 \times 9 \div (-3)$
$= (-1) \times 9 \div (-3)$
$= (-9) \div (-3)$
$= 3$

$(8+6^2) \div (-2) - (-7) \times 5$
$= (8+36) \div (-2) - (-7) \times 5$
$= 44 \div (-2) - (-7) \times 5$
$= (-22) - (-7) \times 5$
$= (-22) - (-35)$
$= 13$

$(3 \times 2^3) \div 6 - (-2) + 4$
$= (3 \times 8) \div 6 - (-2) + 4$
$= 24 \div 6 - (-2) + 4$
$= 4 - (-2) + 4$
$= 6 + 4$
$= 10$

$3 \times \left(7 + (-5) - 9 \div (-9)\right)^2$
$= 3 \times \left(7 + (-5) - (-1)\right)^2$
$= 3 \times \left(2 - (-1)\right)^2$
$= 3 \times 3^2$
$= 3 \times 9$
$= 27$

$\left(5 + (-7)\right) \div \left(6 - (-2)^2\right) \times 8$
$= (-2) \div \left(6 - (-2)^2\right) \times 8$
$= (-2) \div (6-4) \times 8$
$= (-2) \div 2 \times 8$
$= (-1) \times 8$
$= -8$

$6 \times \left(3 + (-10) \div 10 - (-2)^3\right)$
$= 6 \times \left(3 + (-10) \div 10 - (-8)\right)$
$= 6 \times \left(3 + (-1) - (-8)\right)$
$= 6 \times \left(2 - (-8)\right)$
$= 6 \times 10$
$= 60$

Order of Operations (E)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-5) - 9 \div (7 + (-6))^3\right) \times (-4)$

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

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

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

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

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

Order of Operations (E) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-5) - 9 \div \left(7 + (-6)\right)^3\right) \times (-4)$

$= \left((-5) - 9 \div 1^3\right) \times (-4)$

$= \left((-5) - 9 \div 1\right) \times (-4)$

$= \left((-5) - 9\right) \times (-4)$

$= (-14) \times (-4)$

$= 56$

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

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

$= (-10) \div \left((-4) + 2\right) \times (-2)$

$= (-10) \div (-2) \times (-2)$

$= 5 \times (-2)$

$= -10$

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

$= \left((-14) - (-7)\right) \times \left((-3)^3 \div (-9)\right)$

$= (-7) \times \left((-3)^3 \div (-9)\right)$

$= (-7) \times \left((-27) \div (-9)\right)$

$= (-7) \times 3$

$= -21$

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

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

$= 36 \div 4 - (-7) \times 10$

$= 9 - (-7) \times 10$

$= 9 - (-70)$

$= 79$

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

$= (-3) + (-8) \times (-7) \div 1^3$

$= (-3) + (-8) \times (-7) \div 1$

$= (-3) + 56 \div 1$

$= (-3) + 56$

$= 53$

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

$= \left((-10) \times (-2) + 2 - 64\right) \div 7$

$= (20 + 2 - 64) \div 7$

$= (22 - 64) \div 7$

$= (-42) \div 7$

$= -6$

Order of Operations (F)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (F) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

$= 2 \times \left(1 - (-7)\right) \div (-2)^2$

$= 2 \times 8 \div (-2)^2$

$= 2 \times 8 \div 4$

$= 16 \div 4$

$= 4$

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

$= \left((-4) \times 9\right) \div 4 + 6 - (-10)$

$= (-36) \div 4 + 6 - (-10)$

$= (-9) + 6 - (-10)$

$= (-3) - (-10)$

$= 7$

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

$= (-4)^3 - (-8) \times \left(5 + (-2)\right)$

$= (-4)^3 - (-8) \times 3$

$= (-64) - (-8) \times 3$

$= (-64) - (-24)$

$= -40$

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

$= (-90) \div (-9) + 10 - 4^2$

$= (-90) \div (-9) + 10 - 16$

$= 10 + 10 - 16$

$= 20 - 16$

$= 4$

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

$= 10 \div (-2) \times \left((-2) + 6\right)^2$

$= 10 \div (-2) \times 4^2$

$= 10 \div (-2) \times 16$

$= (-5) \times 16$

$= -80$

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

$= (-3)^2 \times \left((-1) - 9\right) \div 2$

$= (-3)^2 \times (-10) \div 2$

$= 9 \times (-10) \div 2$

$= (-90) \div 2$

$= -45$

Order of Operations (G)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (G) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$10 \times \left(\left(\underline{(-6) + (-2)} - (-8) \right) \div 5 \right)^2$
$= 10 \times \left(\left(\underline{(-8) - (-8)} \right) \div 5 \right)^2$
$= 10 \times \underline{(0 \div 5)^2}$
$= 10 \times \underline{0^2}$
$= \underline{10 \times 0}$
$= 0$

$5 \div \left(\underline{(-8) - (-9)} \right) \times (-5) + 4^2$
$= 5 \div 1 \times (-5) + \underline{4^2}$
$= \underline{5 \div 1} \times (-5) + 16$
$= \underline{5 \times (-5)} + 16$
$= \underline{(-25) + 16}$
$= -9$

$(-2) - 4^2 \div (-4) \times \left(\underline{(-5) + 2} \right)$
$= (-2) - \underline{4^2} \div (-4) \times (-3)$
$= (-2) - \underline{16 \div (-4)} \times (-3)$
$= (-2) - \underline{(-4) \times (-3)}$
$= \underline{(-2) - 12}$
$= -14$

$5 \div (\underline{6 \times 2} + (-4) - 9)^3$
$= 5 \div \left(\underline{12 + (-4)} - 9 \right)^3$
$= 5 \div \underline{(8 - 9)^3}$
$= 5 \div \underline{(-1)^3}$
$= \underline{5 \div (-1)}$
$= -5$

$(-3) \times (7 - 3 + \underline{2^3} \div 8)$
$= (-3) \times (7 - 3 + \underline{8 \div 8})$
$= (-3) \times (\underline{7 - 3} + 1)$
$= (-3) \times (\underline{4 + 1})$
$= \underline{(-3) \times 5}$
$= -15$

$\left((-7) - \underline{(-10) \div 2} + 3 \right)^2 \times (-6)$
$= \left(\underline{(-7) - (-5)} + 3 \right)^2 \times (-6)$
$= \left(\underline{(-2) + 3} \right)^2 \times (-6)$
$= \underline{1^2} \times (-6)$
$= \underline{1 \times (-6)}$
$= -6$

Order of Operations (H)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (H) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

$= \left((-4) \div 4 - 4 + 8\right) \times (-9)$

$= \left((-1) - 4 + 8\right) \times (-9)$

$= \left((-5) + 8\right) \times (-9)$

$= 3 \times (-9)$

$= -27$

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

$= \left(9 \div (-9) - 6\right) \times 9 + 10$

$= \left((-1) - 6\right) \times 9 + 10$

$= (-7) \times 9 + 10$

$= (-63) + 10$

$= -53$

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

$= (-8) \times \left((-8) + 9 - (-10)\right) \div 8$

$= (-8) \times \left(1 - (-10)\right) \div 8$

$= (-8) \times 11 \div 8$

$= (-88) \div 8$

$= -11$

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

$= 2 \times \left((-8) + (-1) - (-6)\right)^3$

$= 2 \times \left((-9) - (-6)\right)^3$

$= 2 \times (-3)^3$

$= 2 \times (-27)$

$= -54$

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

$= \left((-11) + 8\right) \div 3 \times 4^3$

$= (-3) \div 3 \times 4^3$

$= (-3) \div 3 \times 64$

$= (-1) \times 64$

$= -64$

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

$= \left(\left(6 + (-6)\right) \times 2\right) \div 4^2$

$= (0 \times 2) \div 4^2$

$= 0 \div 4^2$

$= 0 \div 16$

$= 0$

Order of Operations (I)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (I) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left(\underline{(-2)^2} \times 3\right) \div ((-9) - 5 + 2)$
$= (\underline{4 \times 3}) \div ((-9) - 5 + 2)$
$= 12 \div \left(\underline{(-9) - 5} + 2\right)$
$= 12 \div \left(\underline{(-14) + 2}\right)$
$= \underline{12 \div (-12)}$
$= -1$

$((-10) + \underline{4^2} \div 2 - 3) \times 8$
$= ((-10) + \underline{16 \div 2} - 3) \times 8$
$= \left(\underline{(-10) + 8} - 3\right) \times 8$
$= \left(\underline{(-2) - 3}\right) \times 8$
$= \underline{(-5) \times 8}$
$= -40$

$(-10) \div \left(\underline{3^2} - (-3) + (-7)\right) \times (-9)$
$= (-10) \div \left(\underline{9 - (-3)} + (-7)\right) \times (-9)$
$= (-10) \div \left(\underline{12 + (-7)}\right) \times (-9)$
$= \underline{(-10) \div 5} \times (-9)$
$= \underline{(-2) \times (-9)}$
$= 18$

$\left(2 \times (-10) + \underline{(-3)^2} - (-4)\right) \div (-7)$
$= \left(\underline{2 \times (-10)} + 9 - (-4)\right) \div (-7)$
$= \left(\underline{(-20) + 9} - (-4)\right) \div (-7)$
$= \left(\underline{(-11) - (-4)}\right) \div (-7)$
$= \underline{(-7) \div (-7)}$
$= 1$

$\left(\underline{8 + (-8)}\right) \div \left((-4)^2 - (-5) \times 7\right)$
$= 0 \div \left(\underline{(-4)^2} - (-5) \times 7\right)$
$= 0 \div \left(16 - \underline{(-5) \times 7}\right)$
$= 0 \div \left(\underline{16 - (-35)}\right)$
$= \underline{0 \div 51}$
$= 0$

$(-4) \times (2 + \underline{3^2} \div 9 - 6)$
$= (-4) \times (2 + \underline{9 \div 9} - 6)$
$= (-4) \times (\underline{2 + 1} - 6)$
$= (-4) \times (\underline{3 - 6})$
$= \underline{(-4) \times (-3)}$
$= 12$

Order of Operations (J)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (J) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left(8 - \underline{(-2)^2} + (-4)\right) \div (-5) \times 3$
$= (\underline{8 - 4} + (-4)) \div (-5) \times 3$
$= \left(\underline{4 + (-4)}\right) \div (-5) \times 3$
$= \underline{0 \div (-5)} \times 3$
$= \underline{0 \times 3}$
$= 0$

$\left((-8) \times \left(\underline{(-4) - (-5)} + (-9)\right)\right) \div 8^2$
$= \left((-8) \times \left(\underline{1 + (-9)}\right)\right) \div 8^2$
$= \left(\underline{(-8) \times (-8)}\right) \div 8^2$
$= 64 \div \underline{8^2}$
$= \underline{64 \div 64}$
$= 1$

$(3 + \underline{7^2}) \div (-4) \times (-3) - 6$
$= (\underline{3 + 49}) \div (-4) \times (-3) - 6$
$= \underline{52 \div (-4)} \times (-3) - 6$
$= \underline{(-13) \times (-3)} - 6$
$= \underline{39 - 6}$
$= 33$

$8^2 - 10 + 6 \times \left(\underline{(-8) \div (-4)}\right)$
$= \underline{8^2} - 10 + 6 \times 2$
$= 64 - 10 + \underline{6 \times 2}$
$= \underline{64 - 10} + 12$
$= \underline{54 + 12}$
$= 66$

$(6 - (-9) + \underline{9^2}) \div (8 \times (-3))$
$= \left(\underline{6 - (-9)} + 81\right) \div (8 \times (-3))$
$= (\underline{15 + 81}) \div (8 \times (-3))$
$= 96 \div \left(\underline{8 \times (-3)}\right)$
$= \underline{96 \div (-24)}$
$= -4$

$3 \div \left(\underline{(-8) - (-9)}\right)^3 \times 5 + (-6)$
$= 3 \div \underline{1^3} \times 5 + (-6)$
$= \underline{3 \div 1} \times 5 + (-6)$
$= \underline{3 \times 5} + (-6)$
$= \underline{15 + (-6)}$
$= 9$