Order of Operations (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$(-5)^2 - 4 \times (6 \div ((-7) + 8)) \times 3$

$((-9) + 7)^3 \times (-5) \div ((4 - (-6)) \times 2)$

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

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

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

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

Order of Operations (A) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$(-5)^2 - 4 \times \left(6 \div \left(\underline{(-7) + 8}\right)\right) \times 3$

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

$= \underline{(-5)^2} - 4 \times 6 \times 3$

$= 25 - \underline{4 \times 6} \times 3$

$= 25 - \underline{24 \times 3}$

$= \underline{25 - 72}$

$= -47$

$\left(\underline{(-9) + 7}\right)^3 \times (-5) \div ((4 - (-6)) \times 2)$

$= (-2)^3 \times (-5) \div \left(\left(\underline{4 - (-6)}\right) \times 2\right)$

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

$= \underline{(-2)^3} \times (-5) \div 20$

$= \underline{(-8) \times (-5)} \div 20$

$= \underline{40 \div 20}$

$= 2$

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

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

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

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

$= \underline{(-12) \div 3} + 16$

$= \underline{(-4) + 16}$

$= 12$

$\left(\underline{(-7) + 7}\right) \div (-9)^2 \times \left(8 - (-3)^2\right)$

$= 0 \div (-9)^2 \times \left(8 - \underline{(-3)^2}\right)$

$= 0 \div (-9)^2 \times \left(\underline{8 - 9}\right)$

$= 0 \div \underline{(-9)^2} \times (-1)$

$= \underline{0 \div 81} \times (-1)$

$= \underline{0 \times (-1)}$

$= 0$

$\left(\underline{(-7) + 9} - 7\right)^2 \times (5 \div (-5))^2$

$= \left(\underline{2 - 7}\right)^2 \times (5 \div (-5))^2$

$= (-5)^2 \times \left(\underline{5 \div (-5)}\right)^2$

$= \underline{(-5)^2} \times (-1)^2$

$= 25 \times \underline{(-1)^2}$

$= \underline{25 \times 1}$

$= 25$

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

$= \left(\underline{(-3) \times 3}\right)^2 \div 3 - (-9)^2$

$= \underline{(-9)^2} \div 3 - (-9)^2$

$= 81 \div 3 - \underline{(-9)^2}$

$= \underline{81 \div 3} - 81$

$= \underline{27 - 81}$

$= -54$

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Order of Operations (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

$(-9) - (-5)^2 + (-7) \times (((-8) \div 8) \times 6)$

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Order of Operations (B) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\underline{(-8) \times 7}\right) \div \left((-2)^2 + 5 - 10\right)^3$$
$$= (-56) \div \left(\underline{(-2)^2} + 5 - 10\right)^3$$
$$= (-56) \div \left(\underline{4 + 5} - 10\right)^3$$
$$= (-56) \div \left(\underline{9 - 10}\right)^3$$
$$= (-56) \div \underline{(-1)^3}$$
$$= \underline{(-56) \div (-1)}$$
$$= 56$$

$$\left(\underline{3 + (-3)}\right) \times ((-4) - 6) \div \left((-5)^2 + (-6)\right)$$
$$= 0 \times \left(\underline{(-4) - 6}\right) \div \left((-5)^2 + (-6)\right)$$
$$= 0 \times (-10) \div \left(\underline{(-5)^2} + (-6)\right)$$
$$= 0 \times (-10) \div \left(\underline{25 + (-6)}\right)$$
$$= \underline{0 \times (-10)} \div 19$$
$$= \underline{0 \div 19}$$
$$= 0$$

$$\left(\underline{(-10)^2} - 10^2\right) \div (5 + (-3)) \times 3$$
$$= \left(100 - \underline{10^2}\right) \div (5 + (-3)) \times 3$$
$$= \left(\underline{100 - 100}\right) \div (5 + (-3)) \times 3$$
$$= 0 \div \left(\underline{5 + (-3)}\right) \times 3$$
$$= \underline{0 \div 2} \times 3$$
$$= \underline{0 \times 3}$$
$$= 0$$

$$\left(\underline{8 + (-7)} - 6\right) \div \left((4 \times (-9)) \div (-6)^2\right)$$
$$= \left(\underline{1 - 6}\right) \div \left((4 \times (-9)) \div (-6)^2\right)$$
$$= (-5) \div \left(\left(\underline{4 \times (-9)}\right) \div (-6)^2\right)$$
$$= (-5) \div \left((-36) \div \underline{(-6)^2}\right)$$
$$= (-5) \div \left(\underline{(-36) \div 36}\right)$$
$$= \underline{(-5) \div (-1)}$$
$$= 5$$

$$\left(\underline{(-8) \times (-5)}\right) \div \left((-2)^3 - (-3) + 7\right)^3$$
$$= 40 \div \left(\underline{(-2)^3} - (-3) + 7\right)^3$$
$$= 40 \div \left(\underline{(-8) - (-3)} + 7\right)^3$$
$$= 40 \div \left(\underline{(-5) + 7}\right)^3$$
$$= 40 \div \underline{2^3}$$
$$= \underline{40 \div 8}$$
$$= 5$$

$$(-9) - (-5)^2 + (-7) \times \left(\left(\underline{(-8) \div 8}\right) \times 6\right)$$
$$= (-9) - (-5)^2 + (-7) \times \left(\underline{(-1) \times 6}\right)$$
$$= (-9) - \underline{(-5)^2} + (-7) \times (-6)$$
$$= (-9) - 25 + \underline{(-7) \times (-6)}$$
$$= \underline{(-9) - 25} + 42$$
$$= \underline{(-34) + 42}$$
$$= 8$$

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Order of Operations (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

$(6 + (-5)) \div (8 - 7) \times (-3) + (-9)^2$

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

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Order of Operations (C) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$\left(\underline{4^2} - 7 + (-9)\right)^3 \div (2 \times 8)$

$= \left(\underline{16 - 7} + (-9)\right)^3 \div (2 \times 8)$

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

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

$= \underline{0^3} \div 16$

$= \underline{0 \div 16}$

$= 0$

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

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

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

$= (-6) \times (-8) \div \left(\underline{(-9) + 6}\right)$

$= \underline{(-6) \times (-8)} \div (-3)$

$= \underline{48 \div (-3)}$

$= -16$

$\left(10 \div \left(\underline{(-7) - (-8)}\right)\right) \times (-10) + 8^2 + (-5)$

$= \left(\underline{10 \div 1}\right) \times (-10) + 8^2 + (-5)$

$= 10 \times (-10) + \underline{8^2} + (-5)$

$= \underline{10 \times (-10)} + 64 + (-5)$

$= \underline{(-100) + 64} + (-5)$

$= \underline{(-36) + (-5)}$

$= -41$

$\left(\left(\underline{(-9) + 9}\right) \times 3\right) \div (8 - 5)^3 \div 4$

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

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

$= 0 \div \underline{3^3} \div 4$

$= \underline{0 \div 27} \div 4$

$= \underline{0 \div 4}$

$= 0$

$\left(\underline{6 + (-5)}\right) \div (8 - 7) \times (-3) + (-9)^2$

$= 1 \div \left(\underline{8 - 7}\right) \times (-3) + (-9)^2$

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

$= \underline{1 \div 1} \times (-3) + 81$

$= \underline{1 \times (-3)} + 81$

$= \underline{(-3) + 81}$

$= 78$

$\left((-6) \times \left(\underline{10 - 2} + (-8)\right)^3\right) \div 8^2$

$= \left((-6) \times \left(\underline{8 + (-8)}\right)^3\right) \div 8^2$

$= ((-6) \times \underline{0^3}) \div 8^2$

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

$= 0 \div \underline{8^2}$

$= \underline{0 \div 64}$

$= 0$

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Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (D) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(\underline{(-4)+4}\right)\times(-7)^2\right)\div(-8)-2^2$

$=\left(0\times\underline{(-7)^2}\right)\div(-8)-2^2$

$=\underline{(0\times49)}\div(-8)-2^2$

$=0\div(-8)-\underline{2^2}$

$=\underline{0\div(-8)}-4$

$=\underline{0-4}$

$=-4$

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

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

$=2\times\left(\underline{(-1)^2}\div1^3\right)$

$=2\times\left(1\div\underline{1^3}\right)$

$=2\times\underline{(1\div1)}$

$=\underline{2\times1}$

$=2$

$\left((-6)^2\times\left(\underline{(-5)+9}-4\right)\right)^2\div3$

$=\left((-6)^2\times\underline{(4-4)}\right)^2\div3$

$=\left(\underline{(-6)^2}\times0\right)^2\div3$

$=\underline{(36\times0)}^2\div3$

$=\underline{0^2}\div3$

$=\underline{0\div3}$

$=0$

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

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

$=2^3\div\underline{(5-3)}\times(-9)$

$=\underline{2^3}\div2\times(-9)$

$=\underline{8\div2}\times(-9)$

$=\underline{4\times(-9)}$

$=-36$

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

$=\left(\underline{7+(-27)}\right)\times\left(((-10)-10)\div(-2)^2\right)$

$=(-20)\times\left(\left(\underline{(-10)-10}\right)\div(-2)^2\right)$

$=(-20)\times\left((-20)\div\underline{(-2)^2}\right)$

$=(-20)\times\underline{\left((-20)\div4\right)}$

$=\underline{(-20)\times(-5)}$

$=100$

$(-2)^2-(-3)\times\left(\left(\underline{7+(-7)}\right)\div((-6)\times3)\right)$

$=(-2)^2-(-3)\times\left(0\div\left(\underline{(-6)\times3}\right)\right)$

$=(-2)^2-(-3)\times\left(\underline{0\div(-18)}\right)$

$=\underline{(-2)^2}-(-3)\times0$

$=4-\underline{(-3)\times0}$

$=\underline{4-0}$

$=4$

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Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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Order of Operations (E) Answers

Name:
_____

Date:
_____

Simplify each expression using the correct order of operations.

$\left(8 \div \left(\underline{(-8)+7}\right)^3\right) \times ((-10)-(-2)+5)$

$= \left(8 \div \underline{(-1)^3}\right) \times ((-10)-(-2)+5)$

$= \left(\underline{8 \div (-1)}\right) \times ((-10)-(-2)+5)$

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

$= (-8) \times \left(\underline{(-8)+5}\right)$

$= \underline{(-8) \times (-3)}$

$= 24$

$\left(9 \div \left(\underline{7+(-8)}\right)^2\right) \times (-3) - 4^2$

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

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

$= 9 \times (-3) - \underline{4^2}$

$= \underline{9 \times (-3)} - 16$

$= \underline{(-27)-16}$

$= -43$

$\left(2^3 \times \left(\underline{(-6)+3}-(-4)\right)\right)^2 \div (-8)$

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

$= \left(\underline{2^3} \times 1\right)^2 \div (-8)$

$= \left(\underline{8 \times 1}\right)^2 \div (-8)$

$= \underline{8^2} \div (-8)$

$= \underline{64 \div (-8)}$

$= -8$

$\left(\underline{(-9)+(-4)}-(-10)\right) \times ((-5) \div (2-(-3)))^3$

$= \left(\underline{(-13)-(-10)}\right) \times ((-5) \div (2-(-3)))^3$

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

$= (-3) \times \left(\underline{(-5) \div 5}\right)^3$

$= (-3) \times \underline{(-1)^3}$

$= \underline{(-3) \times (-1)}$

$= 3$

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

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

$= \left(\underline{27 \times 0}\right)^2 \div (-3) - 8$

$= \underline{0^2} \div (-3) - 8$

$= \underline{0 \div (-3)} - 8$

$= \underline{0 - 8}$

$= -8$

$\left(\underline{(-2)^2} \times 9\right) \div (3^2 + (-8) - (-5))$

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

$= 36 \div \left(\underline{3^2} + (-8) - (-5)\right)$

$= 36 \div \left(\underline{9+(-8)}-(-5)\right)$

$= 36 \div \left(\underline{1-(-5)}\right)$

$= \underline{36 \div 6}$

$= 6$

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Order of Operations (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$10^2 \div ((5 + (-6) - (-3)) \times ((-9) - (-8)))$

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

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

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

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

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

Order of Operations (F) Answers

Simplify each expression using the correct order of operations.

$10^2 \div \left(\left(\underline{5 + (-6)} - (-3)\right) \times ((-9) - (-8))\right)$

$= 10^2 \div \left(\left(\underline{(-1) - (-3)}\right) \times ((-9) - (-8))\right)$

$= 10^2 \div \left(2 \times \left(\underline{(-9) - (-8)}\right)\right)$

$= 10^2 \div \left(\underline{2 \times (-1)}\right)$

$= \underline{10^2} \div (-2)$

$= \underline{100 \div (-2)}$

$= -50$

$\left(\underline{9 \div 3}\right) \times \left((-3) + (-6)^2 - (-7) - 7\right)$

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

$= 3 \times \left(\underline{(-3) + 36} - (-7) - 7\right)$

$= 3 \times \left(\underline{33 - (-7)} - 7\right)$

$= 3 \times \left(\underline{40 - 7}\right)$

$= \underline{3 \times 33}$

$= 99$

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

$= \left(\underline{3 - 100} + (-3)\right) \times ((-6) \div 6)^2$

$= \left(\underline{(-97) + (-3)}\right) \times ((-6) \div 6)^2$

$= (-100) \times \left(\underline{(-6) \div 6}\right)^2$

$= (-100) \times \underline{(-1)^2}$

$= \underline{(-100) \times 1}$

$= -100$

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

$= 80 \div \left(8 - (-2) + (-9) - \underline{3^2}\right)$

$= 80 \div \left(\underline{8 - (-2)} + (-9) - 9\right)$

$= 80 \div \left(\underline{10 + (-9)} - 9\right)$

$= 80 \div \left(\underline{1 - 9}\right)$

$= \underline{80 \div (-8)}$

$= -10$

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

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

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

$= 1^3 \times \left(\underline{36 \div (-1)}\right)$

$= \underline{1^3} \times (-36)$

$= \underline{1 \times (-36)}$

$= -36$

$(-3) \times \left(7 - 2 + \underline{(-2)^2}\right) \div ((-5) + 4)$

$= (-3) \times \left(\underline{7 - 2} + 4\right) \div ((-5) + 4)$

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

$= (-3) \times 9 \div \left(\underline{(-5) + 4}\right)$

$= \underline{(-3) \times 9} \div (-1)$

$= \underline{(-27) \div (-1)}$

$= 27$

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Order of Operations (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (G) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$= (-5)^2 \times (-1)^3 \div \underline{\big((-3) + (-2)\big)}$

$= \underline{(-5)^2} \times (-1)^3 \div (-5)$

$= 25 \times \underline{(-1)^3} \div (-5)$

$= \underline{25 \times (-1)} \div (-5)$

$= \underline{(-25) \div (-5)}$

$= 5$

$\Big(8 \div \big(\underline{(-5) + (-3)}\big)\Big)^2 \times (2 - (-4) - 4)$

$= \Big(\underline{8 \div (-8)}\Big)^2 \times (2 - (-4) - 4)$

$= (-1)^2 \times \Big(\underline{2 - (-4)} - 4\Big)$

$= (-1)^2 \times \big(\underline{6 - 4}\big)$

$= \underline{(-1)^2} \times 2$

$= \underline{1 \times 2}$

$= 2$

$\Big(6 \div \big(\underline{7 + (-10)}\big)\Big) \times (2-4) \times 3^2$

$= \Big(\underline{6 \div (-3)}\Big) \times (2-4) \times 3^2$

$= (-2) \times \big(\underline{2-4}\big) \times 3^2$

$= (-2) \times (-2) \times \underline{3^2}$

$= \underline{(-2) \times (-2)} \times 9$

$= \underline{4 \times 9}$

$= 36$

$8 \div \big(\underline{(-2) - (-6)}\big) \times (9 + (-9)) \times (-4)^2$

$= 8 \div 4 \times \big(\underline{9 + (-9)}\big) \times (-4)^2$

$= 8 \div 4 \times 0 \times \underline{(-4)^2}$

$= \underline{8 \div 4} \times 0 \times 16$

$= \underline{2 \times 0} \times 16$

$= \underline{0 \times 16}$

$= 0$

$\Big(\underline{(-8) + 8}\Big)^3 \times (-4) \div ((-9) - 9) \times (-3)$

$= 0^3 \times (-4) \div \Big(\underline{(-9) - 9}\Big) \times (-3)$

$= \underline{0^3} \times (-4) \div (-18) \times (-3)$

$= \underline{0 \times (-4)} \div (-18) \times (-3)$

$= \underline{0 \div (-18)} \times (-3)$

$= \underline{0 \times (-3)}$

$= 0$

$\big(\underline{(6 - 10)} \div 2\big) \times (-4) + 9 - 8^2$

$= \Big(\underline{(-4) \div 2}\Big) \times (-4) + 9 - 8^2$

$= (-2) \times (-4) + 9 - \underline{8^2}$

$= \underline{(-2) \times (-4)} + 9 - 64$

$= \underline{8 + 9} - 64$

$= \underline{17 - 64}$

$= -47$

Order of Operations (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$\left(6^2 \div ((-7) - (-5) + 4)^2\right) \times 9$

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

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

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

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Order of Operations (H) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$= \left(49 \div \underline{7^2}\right) \times (7+(-6))$

$= \left(\underline{49 \div 49}\right) \times (7+(-6))$

$= 1 \times \left(\underline{7+(-6)}\right)$

$= \underline{1 \times 1}$

$= 1$

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

$= (-7) \times \left(\left(\underline{4-2}\right)^3 \div (-2)^2\right)$

$= (-7) \times \left(\underline{2^3} \div (-2)^2\right)$

$= (-7) \times \left(8 \div \underline{(-2)^2}\right)$

$= (-7) \times \left(\underline{8 \div 4}\right)$

$= \underline{(-7) \times 2}$

$= -14$

$\left(6^2 \div \left(\underline{(-7)-(-5)}+4\right)^2\right) \times 9$

$= \left(6^2 \div \left(\underline{(-2)+4}\right)^2\right) \times 9$

$= \left(\underline{6^2} \div 2^2\right) \times 9$

$= \left(36 \div \underline{2^2}\right) \times 9$

$= \left(\underline{36 \div 4}\right) \times 9$

$= \underline{9 \times 9}$

$= 81$

$\left(\underline{(-3)^3}-(-5)\right) \times \left((-8) \div (5+(-7))^2\right)$

$= \left(\underline{(-27)-(-5)}\right) \times \left((-8) \div (5+(-7))^2\right)$

$= (-22) \times \left((-8) \div \left(\underline{5+(-7)}\right)^2\right)$

$= (-22) \times \left((-8) \div \underline{(-2)^2}\right)$

$= (-22) \times \left(\underline{(-8) \div 4}\right)$

$= \underline{(-22) \times (-2)}$

$= 44$

$\left(\underline{2^3}-8\right)^3 \div ((-8) \times (4+7))$

$= \left(\underline{8-8}\right)^3 \div ((-8) \times (4+7))$

$= 0^3 \div \left((-8) \times \left(\underline{4+7}\right)\right)$

$= 0^3 \div \left(\underline{(-8) \times 11}\right)$

$= \underline{0^3} \div (-88)$

$= \underline{0 \div (-88)}$

$= 0$

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

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

$= \left(\underline{(-3)^2} \times 0^2\right) \div 7$

$= \left(9 \times \underline{0^2}\right) \div 7$

$= \left(\underline{9 \times 0}\right) \div 7$

$= \underline{0 \div 7}$

$= 0$

Order of Operations (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (I) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$= (-5) \times \underline{3^2} - 2$

$= \underline{(-5) \times 9} - 2$

$= \underline{(-45) - 2}$

$= -47$

$\left(\underline{(-2) \div 2}\right) \times \left(3^2 + 8 - 10\right)^2$

$= (-1) \times \left(\underline{3^2} + 8 - 10\right)^2$

$= (-1) \times \left(\underline{9 + 8} - 10\right)^2$

$= (-1) \times \left(\underline{17 - 10}\right)^2$

$= (-1) \times \underline{7^2}$

$= \underline{(-1) \times 49}$

$= -49$

$\left(\underline{(-6) \div (-3)}\right)^3 \times ((-4) - 6 + (-8) - (-10))$

$= 2^3 \times \left(\underline{(-4) - 6} + (-8) - (-10)\right)$

$= 2^3 \times \left(\underline{(-10) + (-8)} - (-10)\right)$

$= 2^3 \times \left(\underline{(-18) - (-10)}\right)$

$= \underline{2^3} \times (-8)$

$= \underline{8 \times (-8)}$

$= -64$

$\left(8 - \underline{2^3}\right)^2 \div ((-9) \times (3 + (-2)))$

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

$= 0^2 \div \left((-9) \times \left(\underline{3 + (-2)}\right)\right)$

$= 0^2 \div \left(\underline{(-9) \times 1}\right)$

$= \underline{0^2} \div (-9)$

$= \underline{0 \div (-9)}$

$= 0$

$\left(\underline{(-6) \div (-2)}\right)^2 \times (4 + 5 - 8) \times (-7)$

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

$= 3^2 \times (\underline{9 - 8}) \times (-7)$

$= \underline{3^2} \times 1 \times (-7)$

$= \underline{9 \times 1} \times (-7)$

$= \underline{9 \times (-7)}$

$= -63$

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

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

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

$= (-2) + (-64) \times \underline{(-1)^2}$

$= (-2) + \underline{(-64) \times 1}$

$= \underline{(-2) + (-64)}$

$= -66$

Order of Operations (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$(2 \times (7 + 10 - 5)) \div (6^2 \div 9)$

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

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

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

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

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

Order of Operations (J) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$(2 \times (\underline{7 + 10} - 5)) \div (6^2 \div 9)$

$= (2 \times (\underline{17 - 5})) \div (6^2 \div 9)$

$= (\underline{2 \times 12}) \div (6^2 \div 9)$

$= 24 \div (\underline{6^2} \div 9)$

$= 24 \div (\underline{36 \div 9})$

$= \underline{24 \div 4}$

$= 6$

$((\underline{2 + (-8)}) \div (-3)) \times (3^2 - (-5) - (-2))$

$= (\underline{(-6) \div (-3)}) \times (3^2 - (-5) - (-2))$

$= 2 \times (\underline{3^2} - (-5) - (-2))$

$= 2 \times (\underline{9 - (-5)} - (-2))$

$= 2 \times (\underline{14 - (-2)})$

$= \underline{2 \times 16}$

$= 32$

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

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

$= (\underline{2 \times 9}) \div 2 + 4 + (-8)$

$= \underline{18 \div 2} + 4 + (-8)$

$= \underline{9 + 4} + (-8)$

$= \underline{13 + (-8)}$

$= 5$

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

$= (\underline{36 \div (-2)}) \times (3 - 2^3 + 7)$

$= (-18) \times (3 - \underline{2^3} + 7)$

$= (-18) \times (\underline{3 - 8} + 7)$

$= (-18) \times (\underline{(-5) + 7})$

$= \underline{(-18) \times 2}$

$= -36$

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

$= (5 \div \underline{1^2}) \times ((-2) - 3^2)$

$= (\underline{5 \div 1}) \times ((-2) - 3^2)$

$= 5 \times ((-2) - \underline{3^2})$

$= 5 \times (\underline{(-2) - 9})$

$= \underline{5 \times (-11)}$

$= -55$

$\left(8 \div (\underline{(-10) + 9})^3\right) \times ((-6) - (-8) + 7)$

$= \left(8 \div \underline{(-1)^3}\right) \times ((-6) - (-8) + 7)$

$= (\underline{8 \div (-1)}) \times ((-6) - (-8) + 7)$

$= (-8) \times (\underline{(-6) - (-8)} + 7)$

$= (-8) \times (\underline{2 + 7})$

$= \underline{(-8) \times 9}$

$= -72$