

Name : _____ Score : _____

Teacher : _____ Date : _____

Order of Operations 1

1) $(48 - 4^2) \div (14 + 2)$

6) $6 \times (14 - 3) + 9^2$

2) $(26 - 2) \div 4 + 6^2$

7) $8 \times (13 - 4) + 8^2$

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

8) $(3 + 3)^2 + (20 \div 5)$

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

9) $(7 + 3)^2 + (14 \div 2)$

5) $(85 - 5^2) \div (1 + 5)$

10) $(66 - 6) \div 15 - 5^2$



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Order of Operations 1

$$\begin{array}{rcl}
 1) & (48 - 4^2) \div (14 + 2) & \\
 & (48 - 16) \div (14 + 2) & \\
 & 32 \quad \div \quad 16 & \\
 & 2 &
 \end{array}$$

$$\begin{array}{rcl}
 6) & 6 \times (14 - 3) + 9^2 & \\
 & 6 \times 11 + 9^2 & \\
 & 6 \times 11 + 81 & \\
 & 66 + 81 & \\
 & 147 &
 \end{array}$$

$$\begin{array}{rcl}
 2) & (26 - 2) \div 4 + 6^2 & \\
 & 24 \div 4 + 6^2 & \\
 & 24 \div 4 + 36 & \\
 & 6 + 36 & \\
 & 42 &
 \end{array}$$

$$\begin{array}{rcl}
 7) & 8 \times (13 - 4) + 8^2 & \\
 & 8 \times 9 + 8^2 & \\
 & 8 \times 9 + 64 & \\
 & 72 + 64 & \\
 & 136 &
 \end{array}$$

$$\begin{array}{rcl}
 3) & (9 \times 10 + 3^2) - 9 & \\
 & (9 \times 10 + 9) - 9 & \\
 & (90 + 9) - 9 & \\
 & 99 - 9 & \\
 & 90 &
 \end{array}$$

$$\begin{array}{rcl}
 8) & (3 + 3)^2 + (20 \div 5) & \\
 & 6^2 + 4 & \\
 & 36 + 4 & \\
 & 40 &
 \end{array}$$

$$\begin{array}{rcl}
 4) & (8 \times 5 - 5^2) - 9 & \\
 & (8 \times 5 - 25) - 9 & \\
 & (40 - 25) - 9 & \\
 & 15 - 9 & \\
 & 6 &
 \end{array}$$

$$\begin{array}{rcl}
 9) & (7 + 3)^2 + (14 \div 2) & \\
 & 10^2 + 7 & \\
 & 100 + 7 & \\
 & 107 &
 \end{array}$$

$$\begin{array}{rcl}
 5) & (85 - 5^2) \div (1 + 5) & \\
 & (85 - 25) \div (1 + 5) & \\
 & 60 \div 6 & \\
 & 10 &
 \end{array}$$

$$\begin{array}{rcl}
 10) & (66 - 6) \div 15 - 5^2 & \\
 & 60 \div 15 - 5^2 & \\
 & 60 \div 15 - 25 & \\
 & 4 - 25 & \\
 & -21 &
 \end{array}$$



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Order of Operations 2

1) $(4^2 + (12 \div 3 + 3^2))$

6) $20 + ((18 - 5) \times 6^2)$

2) $8 + ((15 + 5) + 2^2)$

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

3) $(6^2 + (24 \div 6 + 2^2))$

8) $((9 + 3) - (18 \div 6))^2$

4) $((11 - 2) - (20 \div 5))^2$

9) $6 + (4 + (5 + 6)^2)$

5) $((6 + 3)^2 + 5) - 4^2$

10) $14 + (4 + (4 + 4)^2)$



Name : _____

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Order of Operations 2

$$\begin{aligned}
 1) & (4^2 + (12 \div 3 + 3^2)) \\
 & (4^2 + (12 \div 3 + 9)) \\
 & (4^2 + (4 + 9)) \\
 & (4^2 + 13) \\
 & (16 + 13) \\
 & 29
 \end{aligned}$$

$$\begin{aligned}
 6) & 20 + ((18 - 5) \times 6^2) \\
 & 20 + (13 \times 6^2) \\
 & 20 + (13 \times 36) \\
 & 20 + 468 \\
 & 488
 \end{aligned}$$

$$\begin{aligned}
 2) & 8 + ((15 + 5) + 2^2) \\
 & 8 + (20 + 2^2) \\
 & 8 + (20 + 4) \\
 & 8 + 24 \\
 & 32
 \end{aligned}$$

$$\begin{aligned}
 7) & ((3 + 5)^2 \times 6) - 3^2 \\
 & (8^2 \times 6) - 3^2 \\
 & (64 \times 6) - 3^2 \\
 & 384 - 3^2 \\
 & 384 - 9 \\
 & 375
 \end{aligned}$$

$$\begin{aligned}
 3) & (6^2 + (24 \div 6 + 2^2)) \\
 & (6^2 + (24 \div 6 + 4)) \\
 & (6^2 + (4 + 4)) \\
 & (6^2 + 8) \\
 & (36 + 8) \\
 & 44
 \end{aligned}$$

$$\begin{aligned}
 8) & ((9 + 3) - (18 \div 6))^2 \\
 & (12 - (3))^2 \\
 & (12 - 9) \\
 & 3
 \end{aligned}$$

$$\begin{aligned}
 4) & ((11 - 2) - (20 \div 5))^2 \\
 & (9 - (4))^2 \\
 & (9 - 16) \\
 & -7
 \end{aligned}$$

$$\begin{aligned}
 9) & 6 + (4 + (5 + 6)^2) \\
 & 6 + (4 + 11^2) \\
 & 6 + (4 + 121) \\
 & 6 + 125 \\
 & 131
 \end{aligned}$$

$$\begin{aligned}
 5) & ((6 + 3)^2 + 5) - 4^2 \\
 & (9^2 + 5) - 4^2 \\
 & (81 + 5) - 4^2 \\
 & 86 - 4^2 \\
 & 86 - 16 \\
 & 70
 \end{aligned}$$

$$\begin{aligned}
 10) & 14 + (4 + (4 + 4)^2) \\
 & 14 + (4 + 8^2) \\
 & 14 + (4 + 64) \\
 & 14 + 68 \\
 & 82
 \end{aligned}$$



Navn : _____

Lærer : _____ Dato : _____

Order of Operations 3

1) $(14 \div 7)^2 + ((12 + 2) + 5^2)$

6) $13 + (4 \times (10 - 6)^2) + 5$

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

7) $((12 + 6) - (24 \div 4)^2) + 4^2$

3) $(4^2 + (8 \div 2 + 4^2)) + 2^2$

8) $(5^2 + (8 \div 2 + 2^2)) + 2^2$

4) $(20 \div 10)^2 + ((17 + 4) + 6^2)$

9) $((4 + 2)^2 + 7) + 3 - 3^2$

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

10) $((15 - 3) + (12 \div 3)^2) \times 2^2$



Navn : _____

Lærer : _____ Dato : _____

Order of Operations 3

$$\begin{aligned}
 1) & (14 \div 7)^2 + ((12 + 2) + 5^2) \\
 & (2)^2 + (14 + 5^2) \\
 & 4 + (14 + 25) \\
 & 4 + 39 \\
 & 43
 \end{aligned}$$

$$\begin{aligned}
 6) & 13 + (4 \times (10 - 6)^2) + 5 \\
 & 13 + (4 \times 4^2) + 5 \\
 & 13 + (4 \times 16) + 5 \\
 & 13 + 64 + 5 \\
 & 82
 \end{aligned}$$

$$\begin{aligned}
 2) & 9 + (6 \times (5 + 3)^2) - 5 \\
 & 9 + (6 \times 8^2) - 5 \\
 & 9 + (6 \times 64) - 5 \\
 & 9 + 384 - 5 \\
 & 388
 \end{aligned}$$

$$\begin{aligned}
 7) & ((12 + 6) - (24 \div 4)^2) + 4^2 \\
 & (18 - (6)^2) + 4^2 \\
 & (18 - 36) + 4^2 \\
 & -18 + 4^2 \\
 & -18 + 16 \\
 & -2
 \end{aligned}$$

$$\begin{aligned}
 3) & (4^2 + (8 \div 2 + 4^2)) + 2^2 \\
 & (4^2 + (8 \div 2 + 16)) + 2^2 \\
 & (4^2 + (4 + 16)) + 2^2 \\
 & (16 + 20) + 4 \\
 & 36 + 4 \\
 & 40
 \end{aligned}$$

$$\begin{aligned}
 8) & (5^2 + (8 \div 2 + 2^2)) + 2^2 \\
 & (5^2 + (8 \div 2 + 4)) + 2^2 \\
 & (5^2 + (4 + 4)) + 2^2 \\
 & (25 + 8) + 4 \\
 & 33 + 4 \\
 & 37
 \end{aligned}$$

$$\begin{aligned}
 4) & (20 \div 10)^2 + ((17 + 4) + 6^2) \\
 & (2)^2 + (21 + 6^2) \\
 & 4 + (21 + 36) \\
 & 4 + 57 \\
 & 61
 \end{aligned}$$

$$\begin{aligned}
 9) & ((4 + 2)^2 + 7) + 3 - 3^2 \\
 & (6^2 + 7) + 3 - 9 \\
 & (36 + 7) + 3 - 9 \\
 & 43 + 3 - 9 \\
 & 37
 \end{aligned}$$

$$\begin{aligned}
 5) & ((9 - 5)^2 \times 3) + 7 + 5^2 \\
 & (4^2 \times 3) + 7 + 25 \\
 & (16 \times 3) + 7 + 25 \\
 & 48 + 7 + 25 \\
 & 80
 \end{aligned}$$

$$\begin{aligned}
 10) & ((15 - 3) + (12 \div 3)^2) \times 2^2 \\
 & (12 + (4)^2) \times 2^2 \\
 & (12 + 16) \times 2^2 \\
 & 28 \times 2^2 \\
 & 28 \times 4
 \end{aligned}$$



$$3.9 \times 0.5 + 4\frac{5}{6} \div 3\frac{3}{7}$$

$$\left(\frac{5}{3} \times 4\frac{5}{6}\right) \div 1.75 + \frac{5}{3}$$

$$\left(9 + \frac{1}{6}\right) \div \left(1.7 + 2\frac{3}{4}\right)$$

$$2 \times \left(3\frac{6}{7} - 2.3\right) \div 5\frac{2}{9}$$

$$5.2 + 2.1 \div \left(4.5 - 4\frac{1}{7}\right)$$

$$\left(0.75 \times 1\frac{4}{9}\right) \div \left(4\frac{1}{6} + 1.75\right)$$

$$\left(\frac{3}{2}\right)^2 - 1 + 6$$

$$0.8 \div \left(1.5 + \frac{2}{3}\right)^2$$

$$\frac{2}{9} \left(10\frac{1}{6} - 3\frac{3}{7} - 1\right)$$

$$\left(7 \times \frac{10}{7}\right) \div 1.2 + 1\frac{3}{4}$$

$$3.9 \times 0.5 + 4\frac{5}{6} \div 3\frac{3}{7} = \frac{2419}{720}$$

$$\left(\frac{5}{3} \times 4\frac{5}{6}\right) \div 1.75 + \frac{5}{3} = \frac{395}{63}$$

$$\left(9 + \frac{1}{6}\right) \div \left(1.7 + 2\frac{3}{4}\right) = \frac{550}{267}$$

$$2 \times \left(3\frac{6}{7} - 2.3\right) \div 5\frac{2}{9} = \frac{981}{1645}$$

$$5.2 + 2.1 \div \left(4.5 - 4\frac{1}{7}\right) = \frac{277}{25}$$

$$\left(0.75 \times 1\frac{4}{9}\right) \div \left(4\frac{1}{6} + 1.75\right) = \frac{13}{71}$$

$$\left(\frac{3}{2}\right)^2 - 1 + 6 = \frac{29}{4}$$

$$0.8 \div \left(1.5 + \frac{2}{3}\right)^2 = \frac{144}{845}$$

$$\frac{2}{9} \left(10\frac{1}{6} - 3\frac{3}{7} - 1\right) = \frac{241}{189}$$

$$\left(7 \times \frac{10}{7}\right) \div 1.2 + 1\frac{3}{4} = \frac{121}{12}$$

$$2\frac{2}{9} \times \left(-1\frac{1}{3}\right) + \left(-1\frac{7}{9}\right) + 0.75$$

$$\left(2\frac{1}{7} \times (4.8)^3\right) \div (-9)$$

$$2\frac{2}{3} + \left(\left(\frac{-16}{9}\right) + 0.6\right) \div 1.1$$

$$2.6 \times 2 \left(\left(-3\frac{1}{6}\right) + 2\right)$$

$$(-10) \div \left(\left(-3\frac{2}{3}\right) - 2\frac{6}{7}\right) \times 5.6$$

$$1 + \left(-3\frac{1}{5}\right) + (-3.1) + 7$$

$$\left(1.7 - 3\frac{2}{7}\right) \div \left((-2) + 5\frac{6}{7}\right)$$

$$2\frac{5}{7} \div 1.5 + 2\frac{1}{6} + 5$$

$$2 \div (-8.4) \times 3.8 \times \frac{1}{8}$$

$$(-1.5) \div \left(-1\frac{1}{3}\right) + (-1.5)^2$$

$$2\frac{2}{9} \times \left(-1\frac{1}{3}\right) + \left(-1\frac{7}{9}\right) + 0.75 = -3\frac{107}{108} \quad \left(2\frac{1}{7} \times (4.8)^3\right) \div (-9) = -26\frac{58}{175}$$

$$2\frac{2}{3} + \left(\left(\frac{-16}{9}\right) + 0.6\right) \div 1.1 = 1\frac{59}{99} \quad 2.\dot{6} \times 2 \left(\left(-3\frac{1}{6}\right) + 2\right) = -6\frac{2}{9}$$

$$(-10) \div \left(\left(-3\frac{2}{3}\right) - 2\frac{6}{7}\right) \times 5.6 = 8\frac{80}{137} \quad 1 + \left(-3\frac{1}{5}\right) + (-3.1) + 7 = 1\frac{7}{10}$$

$$\left(1.\dot{7} - 3\frac{2}{7}\right) \div \left((-2) + 5\frac{6}{7}\right) = -\frac{95}{243} \quad 2\frac{5}{7} \div 1.5 + 2\frac{1}{6} + 5 = 8\frac{41}{42}$$

$$2 \div (-8.4) \times 3.8 \times \frac{1}{8} = -\frac{19}{168} \quad (-1.5) \div \left(-1\frac{1}{3}\right) + (-1.5)^2 = 3\frac{3}{8}$$

Order of Operations with Decimals (A) 6

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$0.75 \times 3.2 + (9.1)^2 \div ((-2.3) - (-0.9))^2$$

$$((-5.4)^2 \div 3.6) \times 3.1 - (-2.2)^2 + (-3.2)$$

$$(((-8.9) + (-3.9)) \div 3.2) \times (-3.2) - 7.3 + (-4.6)^2$$

Order of Operations with Decimals (A) Answers 6

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 0.75 \times 3.2 + (9.1)^2 \div ((-2.3) - (-0.9))^2 \\ &= 0.75 \times 3.2 + \underline{(9.1)^2} \div \underline{(-1.4)^2} \\ &= 0.75 \times 3.2 + 82.81 \div \underline{(-1.4)^2} \\ &= \underline{0.75 \times 3.2} + 82.81 \div 1.96 \\ &= 2.4 + \underline{82.81 \div 1.96} \\ &= \underline{2.4 + 42.25} \\ &= 44.65 \end{aligned}$$

$$\begin{aligned} & ((-5.4)^2 \div 3.6) \times 3.1 - (-2.2)^2 + (-3.2) \\ &= \underline{(29.16 \div 3.6)} \times 3.1 - (-2.2)^2 + (-3.2) \\ &= 8.1 \times 3.1 - \underline{(-2.2)^2} + (-3.2) \\ &= \underline{8.1 \times 3.1} - 4.84 + (-3.2) \\ &= \underline{25.11} - 4.84 + (-3.2) \\ &= \underline{20.27} + (-3.2) \\ &= 17.07 \end{aligned}$$

$$\begin{aligned} & (((-8.9) + (-3.9)) \div 3.2) \times (-3.2) - 7.3 + (-4.6)^2 \\ &= \underline{((-12.8) \div 3.2)} \times (-3.2) - 7.3 + (-4.6)^2 \\ &= (-4) \times (-3.2) - 7.3 + \underline{(-4.6)^2} \\ &= \underline{(-4) \times (-3.2)} - 7.3 + 21.16 \\ &= \underline{12.8 - 7.3} + 21.16 \\ &= \underline{5.5} + 21.16 \\ &= 26.66 \end{aligned}$$

Order of Operations with Decimals (A) 7

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((-6.6) + (-9.2) - (-6.4)^2) \div 2.2$$

$$(-1.8)^2 + 2.5 \times ((-4.5) - (-7.7))$$

$$((-7.2)^2 - 6.4) \times (1.8 + (-0.8))$$

$$(9.5 - (-0.1)) \times (2.5)^2 + (-3.7)$$

$$((-4.1) + (-8.6) - (0.5)^2) \times 7.2$$

$$(7.5 + 3.2) \times (1.2 - 2.2)^2$$

$$(3.1 + (-7.3) - (0.5)^2) \times (-2.6)$$

$$(2.2 + (-0.6)^2 - 1.4) \times (-2.5)$$

Order of Operations with Decimals (A) Answers 7

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((-6.6) + (-9.2) - (-6.4)^2) \div 2.2 \\ &= ((-6.6) + (-9.2) - 40.96) \div 2.2 \\ &= ((-15.8) - 40.96) \div 2.2 \\ &= (-56.76) \div 2.2 \\ &= -25.8 \end{aligned}$$

$$\begin{aligned} & (-1.8)^2 + 2.5 \times ((-4.5) - (-7.7)) \\ &= (-1.8)^2 + 2.5 \times 3.2 \\ &= 3.24 + 2.5 \times 3.2 \\ &= 3.24 + 8 \\ &= 11.24 \end{aligned}$$

$$\begin{aligned} & ((-7.2)^2 - 6.4) \times (1.8 + (-0.8)) \\ &= (51.84 - 6.4) \times (1.8 + (-0.8)) \\ &= 45.44 \times (1.8 + (-0.8)) \\ &= 45.44 \times 1 \\ &= 45.44 \end{aligned}$$

$$\begin{aligned} & (9.5 - (-0.1)) \times (2.5)^2 + (-3.7) \\ &= 9.6 \times (2.5)^2 + (-3.7) \\ &= 9.6 \times 6.25 + (-3.7) \\ &= 60 + (-3.7) \\ &= 56.3 \end{aligned}$$

$$\begin{aligned} & ((-4.1) + (-8.6) - (0.5)^2) \times 7.2 \\ &= ((-4.1) + (-8.6) - 0.25) \times 7.2 \\ &= ((-12.7) - 0.25) \times 7.2 \\ &= (-12.95) \times 7.2 \\ &= -93.24 \end{aligned}$$

$$\begin{aligned} & (7.5 + 3.2) \times (1.2 - 2.2)^2 \\ &= 10.7 \times (1.2 - 2.2)^2 \\ &= 10.7 \times (-1)^2 \\ &= 10.7 \times 1 \\ &= 10.7 \end{aligned}$$

$$\begin{aligned} & (3.1 + (-7.3) - (0.5)^2) \times (-2.6) \\ &= (3.1 + (-7.3) - 0.25) \times (-2.6) \\ &= ((-4.2) - 0.25) \times (-2.6) \\ &= (-4.45) \times (-2.6) \\ &= 11.57 \end{aligned}$$

$$\begin{aligned} & (2.2 + (-0.6)^2 - 1.4) \times (-2.5) \\ &= (2.2 + 0.36 - 1.4) \times (-2.5) \\ &= (2.56 - 1.4) \times (-2.5) \\ &= 1.16 \times (-2.5) \\ &= -2.9 \end{aligned}$$

Order of Operations with Fractions (A) 8

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\left(\frac{1}{6} - \frac{2}{3} + \left(-\frac{1}{2}\right)\right)^2 \times \left(\frac{3}{4} \div \frac{1}{4} + \frac{3}{8}\right)$$

Order of Operations with Fractions (A) 8

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned}
 & \left(\left(-\frac{3}{4} \right) + \left(\frac{2}{3} \right)^3 \div \left(-\frac{8}{9} \right) - \left(-\frac{2}{3} \right) \right) \times \left(\left(-\frac{1}{8} \right) + \left(-\frac{4}{5} \right) \right) \\
 &= \left(\left(-\frac{3}{4} \right) + \frac{8}{27} \div \left(-\frac{8}{9} \right) - \left(-\frac{2}{3} \right) \right) \times \left(\left(-\frac{1}{8} \right) + \left(-\frac{4}{5} \right) \right) \\
 &= \left(\left(-\frac{3}{4} \right) + \left(-\frac{1}{3} \right) - \left(-\frac{2}{3} \right) \right) \times \left(\left(-\frac{1}{8} \right) + \left(-\frac{4}{5} \right) \right) \\
 &= \left(\left(-\frac{13}{12} \right) - \left(-\frac{2}{3} \right) \right) \times \left(\left(-\frac{1}{8} \right) + \left(-\frac{4}{5} \right) \right) \\
 &= \left(-\frac{5}{12} \right) \times \left(\left(-\frac{1}{8} \right) + \left(-\frac{4}{5} \right) \right) \\
 &= \left(-\frac{5}{12} \right) \times \left(-\frac{37}{40} \right) \\
 &= \frac{37}{96}
 \end{aligned}$$

$$\begin{aligned}
 & \left(\frac{1}{6} - \frac{2}{3} + \left(-\frac{1}{2} \right) \right)^2 \times \left(\frac{3}{4} \div \frac{1}{4} + \frac{3}{8} \right) \\
 &= \left(\left(-\frac{1}{2} \right) + \left(-\frac{1}{2} \right) \right)^2 \times \left(\frac{3}{4} \div \frac{1}{4} + \frac{3}{8} \right) \\
 &= (-1)^2 \times \left(\frac{3}{4} \div \frac{1}{4} + \frac{3}{8} \right) \\
 &= (-1)^2 \times \left(3 + \frac{3}{8} \right) \\
 &= (-1)^2 \times \frac{27}{8} \\
 &= 1 \times \frac{27}{8} \\
 &= \frac{27}{8} \\
 &= 3\frac{3}{8}
 \end{aligned}$$