



ORDER OF OPERATIONS

Name _____

Score _____

OF:48

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Example 1: $\frac{7}{9} + \left(\left(\frac{7}{5} \times \frac{5}{8} \right) \div \frac{9}{8} \right)$

$$= \frac{7}{9} + \left(\frac{7}{8} \div \frac{9}{8} \right)$$
$$= \frac{7}{9} + \frac{7}{9}$$
$$= \frac{14}{9} \text{ or } 1\frac{5}{9}$$

Example 2: $((2.5 + 3.5) \times (-1.2)) - 4.81$

$$= (6 \times (-1.2)) - 4.81$$
$$= -7.2 - 4.81$$
$$= -12.01$$

Solve each expression.

1) $((1.7 \times 2.2) + (6.25 \div 2.5)) - 18.5$

2) $(-4.9) \div (0.3 - (-0.4))$

3) $\frac{17}{6} \times \left(\left(\frac{9}{8} - \frac{3}{4} \right) \div \frac{3}{16} \right)$

4) $\left(\left(\frac{7}{6} - \frac{1}{3} \right) \times \frac{12}{25} \right) + \left(\frac{8}{15} \div \frac{2}{3} \right)$

5) $((2.7 - 1.7) \times (-1.2)) + 6.28$

6) $(1.5 \div (9.8 - 9.5)) + 3.2$

7) $\left(\left(-3\frac{1}{3} - \left(\frac{13}{15} + \frac{1}{5} \right) \right) \div \frac{4}{5} \right) \times \frac{2}{3}$

8) $\frac{2}{3} + \left(\left(\frac{4}{7} - \frac{2}{7} \right) \times \frac{14}{3} \right) - 1\frac{1}{3}$

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Answer key

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Example 1: $\frac{7}{9} + \left(\left(\frac{7}{5} \times \frac{5}{8} \right) \div \frac{9}{8} \right)$
 $= \frac{7}{9} + \left(\frac{7}{8} \div \frac{9}{8} \right)$
 $= \frac{7}{9} + \frac{7}{9}$
 $= \frac{14}{9} \text{ or } 1\frac{5}{9}$

Example 2: $((2.5 + 3.5) \times (-1.2)) - 4.81$
 $= (6 \times (-1.2)) - 4.81$
 $= -7.2 - 4.81$
 $= -12.01$

Solve each expression.

1) $((1.7 \times 2.2) + (6.25 \div 2.5)) - 18.5$

-12.26

2) $(-4.9) \div (0.3 - (-0.4))$

-7

3) $\frac{17}{6} \times \left(\left(\frac{9}{8} - \frac{3}{4} \right) \div \frac{3}{16} \right)$

$5\frac{2}{3}$

4) $\left(\left(\frac{7}{6} - \frac{1}{3} \right) \times \frac{12}{25} \right) + \left(\frac{8}{15} \div \frac{2}{3} \right)$

$1\frac{1}{5}$

5) $((2.7 - 1.7) \times (-1.2)) + 6.28$

5.08

6) $(1.5 \div (9.8 - 9.5)) + 3.2$

8.2

7) $\left(\left(-3\frac{1}{3} - \left(\frac{13}{15} + \frac{1}{5} \right) \right) \div \frac{4}{5} \right) \times \frac{2}{3}$

$-3\frac{2}{3}$

8) $\frac{2}{3} + \left(\left(\frac{4}{7} - \frac{2}{7} \right) \times \frac{14}{3} \right) - 1\frac{1}{3}$

$\frac{2}{3}$