



ORDER OF OPERATIONS

Name _____

Score _____

OF:46

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

2) $\left(\frac{2}{5} \times \frac{5}{4} \right) - \left(\frac{12}{7} \div \left(\frac{4}{7} + \frac{2}{7} \right) \right)$

3) $((0.1 \times 2.5) + 1.25) - 1.8$

4) $5.6 \div ((2.8 - 1.8) \times (0.3 + 0.5))$

5) $\frac{36}{49} \div \left(\left(-\frac{3}{7} \times \left(\frac{9}{7} - \frac{6}{7} \right) \right) + 1\frac{2}{7} \right)$

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

7) $3.4 - ((-0.25) \div 0.5)$

8) $((1.18 + 3.3 \times 1.1) - 4.7) \div 0.1$



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Answer key

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Example 1: $\frac{7}{9} + \left(\left(\frac{7}{5} \times \frac{5}{8} \right) \div \frac{9}{8} \right)$
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 $= (6 \times (-1.2)) - 4.81$
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Solve each expression.

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

$2\frac{11}{15}$

2) $\left(\frac{2}{5} \times \frac{5}{4} \right) - \left(\frac{12}{7} \div \left(\frac{4}{7} + \frac{2}{7} \right) \right)$

$-1\frac{1}{2}$

3) $((0.1 \times 2.5) + 1.25) - 1.8$

-0.3

4) $5.6 \div ((2.8 - 1.8) \times (0.3 + 0.5))$

7

5) $\frac{36}{49} \div \left(\left(-\frac{3}{7} \times \left(\frac{9}{7} - \frac{6}{7} \right) \right) + 1\frac{2}{7} \right)$

$1\frac{1}{2}$

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

3

7) $3.4 - ((-0.25) \div 0.5)$

3.9

8) $((1.18 + 3.3 \times 1.1) - 4.7) \div 0.1$

1.1