



ORDER OF OPERATIONS

Name _____

Score _____

OF:50

Example 1: $\left(\left(\frac{7}{6} - \frac{5}{6}\right) + \frac{8}{3}\right) \times 2^3$

$$= \left(\frac{1}{3} + \frac{8}{3}\right) \times 2^3$$
$$= 3 \times 2^3$$
$$= 3 \times 8$$
$$= \mathbf{24}$$

Example 2: $((6.25 \div 2.5) + 1.2^2) - 3.89$

$$= (2.5 + 1.2^2) - 3.89$$
$$= (2.5 + 1.44) - 3.89$$
$$= 3.94 - 3.89$$
$$= \mathbf{0.05}$$

Solve each expression.

1) $(-8.5)^2 + (1.8 \times (8.3 - 0.6))$

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

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

4) $((-2.3)^2 + (-1.9)^2) \times 1.5$

5) $2.8 \times (4.32 \div (3.3 - 2.7)^3)$

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

7) $\left(\left(\left(-\frac{5}{2}\right)^3 \div \frac{25}{8}\right) + \frac{1}{2}\right) - \frac{1}{3}$

8) $((4.5 \times 1.6)^2 \div 4.8) + 1.9 - 2.4$



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Answer key

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Example 1: $\left(\left(\frac{7}{6} - \frac{5}{6}\right) + \frac{8}{3}\right) \times 2^3$
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Solve each expression.

1) $(-8.5)^2 + (1.8 \times (8.3 - 0.6))$

86.11

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

$3\frac{1}{8}$

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

$-6\frac{3}{4}$

4) $((-2.3)^2 + (-1.9)^2) \times 1.5$

13.35

5) $2.8 \times (4.32 \div (3.3 - 2.7)^3)$

56

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

4

7) $\left(\left(\left(-\frac{5}{2}\right)^3 \div \frac{25}{8}\right) + \frac{1}{2}\right) - \frac{1}{3}$

$-4\frac{5}{6}$

8) $((4.5 \times 1.6)^2 \div 4.8) + 1.9 - 2.4$

10.3