



ORDER OF OPERATIONS

Name _____

Score _____

OF:37

Example 1: $1\frac{1}{4} \times 6 - \left(\frac{1}{2}\right)^2$

$$= 1\frac{1}{4} \times 6 - \frac{1}{4}$$
$$= \frac{15}{2} - \frac{1}{4}$$
$$= \frac{29}{4} \text{ or } 7\frac{1}{4}$$

Example 2: $1.55 + 0.5^2 - 4.9 \div 7$

$$= 1.55 + 0.25 - 4.9 \div 7$$
$$= 1.55 + 0.25 - 0.7$$
$$= 1.8 - 0.7$$
$$= 1.1$$

Solve each expression.

1) $1\frac{2}{7} \times \left(\frac{2}{3}\right)^2 - \frac{6}{7^2} \div \frac{1}{7}$

2) $2.4^2 + 5.6 \times 1.6$

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

4) $18.14 + 0.5^3 \div 2.5 - 21.13$

5) $1.9 - 3^2 \times 0.3 + 16.1$

6) $\left(\frac{1}{3}\right)^2 \div \frac{1}{9} + \frac{2}{3} - \frac{15}{2} \times \frac{2}{5}$

7) $2.16 \div 6^2 - 13.06 + 1.2 \times 0.5$

8) $\frac{2}{3} \div \frac{2}{3} \times 2^2 + 1\frac{1}{2}$



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Answer key

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$$= 1.55 + 0.25 - 0.7$$
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Solve each expression.

1) $1\frac{2}{7} \times \left(\frac{2}{3}\right)^2 - \frac{6}{7^2} \div \frac{1}{7}$

 $-\frac{2}{7}$

2) $2.4^2 + 5.6 \times 1.6$

14.72

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

-1

4) $18.14 + 0.5^3 \div 2.5 - 21.13$

-2.94

5) $1.9 - 3^2 \times 0.3 + 16.1$

15.3

6) $\left(\frac{1}{3}\right)^2 \div \frac{1}{9} + \frac{2}{3} - \frac{15}{2} \times \frac{2}{5}$

 $-1\frac{1}{3}$

7) $2.16 \div 6^2 - 13.06 + 1.2 \times 0.5$

-12.4

8) $\frac{2}{3} \div \frac{2}{3} \times 2^2 + 1\frac{1}{2}$

 $5\frac{1}{2}$