



# ORDER OF OPERATIONS

Name \_\_\_\_\_

Score \_\_\_\_\_

OF:44

Example 1:  $\left(15 \div 1\frac{2}{3}\right) \times \left(-\frac{2}{3}\right)^2 + \frac{7}{2}$

$$= 9 \times \frac{4}{9} + \frac{7}{2}$$
$$= 4 + \frac{7}{2}$$
$$= \frac{15}{2} \text{ or } 7\frac{1}{2}$$

Example 2:  $(2.9 - 1.8)^2 \times 1.2 + 3.08$

$$= 1.1^2 \times 1.2 + 3.08$$
$$= 1.21 \times 1.2 + 3.08$$
$$= 1.452 + 3.08$$
$$= \mathbf{4.532}$$

Solve each expression.

1)  $19.3 + 4 \times (17.8 - 15.2) \div 2^3$

\_\_\_\_\_

2)  $6.9^2 + 8.1 \div (8.9 - 6.2)$

\_\_\_\_\_

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

\_\_\_\_\_

4)  $\left(\frac{1}{5}\right)^2 + \left(\frac{7}{9} \times \frac{18}{35}\right)$

\_\_\_\_\_

5)  $(5.13 - 1.5 \times 7.2) + 1.7^2$

\_\_\_\_\_

6)  $(11.2 - 1.9)^2 \div (-3.1)$

\_\_\_\_\_

7)  $\left(\frac{17}{7} - \frac{16}{7}\right) \times 2 - \left(\frac{6}{7}\right)^2$

\_\_\_\_\_

8)  $\left(7 \div \frac{7}{8}\right) + 3^2 - \left(\frac{4}{5} \times \frac{15}{4}\right)^3$

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## Answer key

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Example 1:  $\left(15 \div 1\frac{2}{3}\right) \times \left(-\frac{2}{3}\right)^2 + \frac{7}{2}$

$$= 9 \times \frac{4}{9} + \frac{7}{2}$$
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Example 2:  $(2.9 - 1.8)^2 \times 1.2 + 3.08$

$$= 1.1^2 \times 1.2 + 3.08$$
$$= 1.21 \times 1.2 + 3.08$$
$$= 1.452 + 3.08$$
$$= \mathbf{4.532}$$

Solve each expression.

1)  $19.3 + 4 \times (17.8 - 15.2) \div 2^3$

**20.6**

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2)  $6.9^2 + 8.1 \div (8.9 - 6.2)$

**50.61**

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

**$5\frac{1}{4}$**

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4)  $\left(\frac{1}{5}\right)^2 + \left(\frac{7}{9} \times \frac{18}{35}\right)$

**$\frac{11}{25}$**

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5)  $(5.13 - 1.5 \times 7.2) + 1.7^2$

**-2.78**

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6)  $(11.2 - 1.9)^2 \div (-3.1)$

**-27.9**

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7)  $\left(\frac{17}{7} - \frac{16}{7}\right) \times 2 - \left(\frac{6}{7}\right)^2$

**$-\frac{22}{49}$**

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8)  $\left(7 \div \frac{7}{8}\right) + 3^2 - \left(\frac{4}{5} \times \frac{15}{4}\right)^3$

**-10**

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