



# ORDER OF OPERATIONS

Name \_\_\_\_\_

Score \_\_\_\_\_

OF:45

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)  $6.3 \times (1.5^2 - 0.25)$

\_\_\_\_\_

2)  $\left(\frac{18}{11} \div \frac{9}{22}\right)^3 + \left(\frac{5}{4} \times \frac{8}{5}\right)^2$

\_\_\_\_\_

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

\_\_\_\_\_

4)  $(5.32 \div 2.8)^2 + (3.9 - 1.3) \times 2.4$

\_\_\_\_\_

5)  $(4.8 + 3.4 - 10.2)^2 \div 2^3$

\_\_\_\_\_

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

\_\_\_\_\_

7)  $\left(-3\frac{3}{5}\right) \times \left(\frac{27}{10} + \frac{23}{10}\right) + 5^2$

\_\_\_\_\_

8)  $1.25 \div (3.8 - 1.3) \times 1.3^2$

\_\_\_\_\_



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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)  $6.3 \times (1.5^2 - 0.25)$

**12.6**

2)  $\left(\frac{18}{11} \div \frac{9}{22}\right)^3 + \left(\frac{5}{4} \times \frac{8}{5}\right)^2$

**68**

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

**$4\frac{5}{8}$**

4)  $(5.32 \div 2.8)^2 + (3.9 - 1.3) \times 2.4$

**9.85**

5)  $(4.8 + 3.4 - 10.2)^2 \div 2^3$

**0.5**

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

**$\frac{1}{9}$**

7)  $\left(-3\frac{3}{5}\right) \times \left(\frac{27}{10} + \frac{23}{10}\right) + 5^2$

**7**

8)  $1.25 \div (3.8 - 1.3) \times 1.3^2$

**0.845**