



# ORDER OF OPERATIONS

Name \_\_\_\_\_

Score \_\_\_\_\_

OF:43

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

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

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)  $(\frac{1}{2} \times 2^2) \div (\frac{1}{4} + \frac{3}{2})$

\_\_\_\_\_

2)  $7.5^2 \div (2.8 - 3.8)$

\_\_\_\_\_

3)  $8.5 \times (1.6^2 + 3.9 - 1.8)$

\_\_\_\_\_

4)  $(-\frac{3}{4})^2 \times (1\frac{2}{9} - \frac{2}{3})$

\_\_\_\_\_

5)  $3\frac{2}{3} + (\frac{5}{3})^2 \times (\frac{2}{5} - \frac{1}{5})^2$

\_\_\_\_\_

6)  $(1.6 - 1.4)^2 \times 9.43 \div 4.1$

\_\_\_\_\_

7)  $1.7^3 + 12.1 \times (2.5 \div 5^2) - 18.25$

\_\_\_\_\_

8)  $(\frac{1}{5} \times \frac{5}{3^2} \div \frac{10}{18}) + \frac{1}{10} - \frac{1}{5}$

\_\_\_\_\_



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## Answer key

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

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

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)  $(\frac{1}{2} \times 2^2) \div (\frac{1}{4} + \frac{3}{2})$

$$\underline{1\frac{1}{7}}$$

2)  $7.5^2 \div (2.8 - 3.8)$

$$\underline{-56.25}$$

3)  $8.5 \times (1.6^2 + 3.9 - 1.8)$

$$\underline{39.61}$$

4)  $(-\frac{3}{4})^2 \times (1\frac{2}{9} - \frac{2}{3})$

$$\underline{\frac{5}{16}}$$

5)  $3\frac{2}{3} + (\frac{5}{3})^2 \times (\frac{2}{5} - \frac{1}{5})^2$

$$\underline{3\frac{7}{9}}$$

6)  $(1.6 - 1.4)^2 \times 9.43 \div 4.1$

$$\underline{0.092}$$

7)  $1.7^3 + 12.1 \times (2.5 \div 5^2) - 18.25$

$$\underline{-12.127}$$

8)  $(\frac{1}{5} \times \frac{5}{3^2} \div \frac{10}{18}) + \frac{1}{10} - \frac{1}{5}$

$$\underline{\frac{1}{10}}$$