



# ORDER OF OPERATIONS

Name \_\_\_\_\_

Score \_\_\_\_\_

OF:49

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

\_\_\_\_\_

2)  $((6.2 + 9.1^2) \times (0.5 - 0.5^2)) \div 2.5$

\_\_\_\_\_

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

\_\_\_\_\_

4)  $19.25 - ((7.8 + 3.2) \times 2.2^2)$

\_\_\_\_\_

5)  $2.4^2 \times ((-5.3) - (-5.9)) \div (-0.6)$

\_\_\_\_\_

6)  $\left(\frac{3}{4}\right)^2 - \left(\frac{12}{25} \div \left(\frac{4}{5} \times \frac{4}{5}\right)\right)$

\_\_\_\_\_

7)  $12.9 - ((-1.8)^2 \div (-0.9))$

\_\_\_\_\_

8)  $\frac{4}{9} \div \left(\left(\frac{1}{7} \times \frac{7}{9}\right) + \frac{11}{3^2}\right)$

\_\_\_\_\_



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## Answer key

OF:49

Example 1:  $\left(\left(\frac{7}{6} - \frac{5}{6}\right) + \frac{8}{3}\right) \times 2^3$   
 $= \left(\frac{1}{3} + \frac{8}{3}\right) \times 2^3$   
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 $= 3 \times 8$   
 $= \mathbf{24}$

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

1  $\frac{2}{3}$

2)  $((6.2 + 9.1^2) \times (0.5 - 0.5^2)) \div 2.5$

8.901

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

8

4)  $19.25 - ((7.8 + 3.2) \times 2.2^2)$

-33.99

5)  $2.4^2 \times ((-5.3) - (-5.9)) \div (-0.6)$

-5.76

6)  $\left(\frac{3}{4}\right)^2 - \left(\frac{12}{25} \div \left(\frac{4}{5} \times \frac{4}{5}\right)\right)$

$-\frac{3}{16}$

7)  $12.9 - ((-1.8)^2 \div (-0.9))$

16.5

8)  $\frac{4}{9} \div \left(\left(\frac{1}{7} \times \frac{7}{9}\right) + \frac{11}{3^2}\right)$

$\frac{1}{3}$