



ORDER OF OPERATIONS

Name _____

Score _____

OF:51

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) $3.5^2 \div ((-4.5) + 5.9)$

2) $\left(\left(-\frac{1}{2}\right)^2 + \left(-\frac{1}{3}\right)^2\right) \times \frac{36}{13}$

3) $((-7.4) \times (-0.1) - 6.8^2) + 3.5$

4) $\left(\left(\frac{1}{9} \times \left(\frac{3}{2}\right)^2\right) - 3\frac{1}{4}\right) \div \frac{1}{6}$

5) $\frac{2}{9} \div \left(\left(-\frac{5}{2}\right) \times \frac{2}{9}\right)^2$

6) $((-3.6 + 0.7^2) - 2.81) \times (1.5^2 \div 2.5)$

7) $\left(\frac{7}{8} - \frac{5}{8}\right)^2 \times \left(\left(-\frac{7}{12}\right) \div \frac{7}{16}\right)$

8) $((4.7 + 6.6) - 9.9)^3 \div 4.9$



ORDER OF OPERATIONS

Name _____

Score _____

Answer key

OF:51

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) $3.5^2 \div ((-4.5) + 5.9)$

8.75

2) $\left(\left(-\frac{1}{2}\right)^2 + \left(-\frac{1}{3}\right)^2\right) \times \frac{36}{13}$

1

3) $((-7.4) \times (-0.1) - 6.8^2) + 3.5$

-42

4) $\left(\left(\frac{1}{9} \times \left(\frac{3}{2}\right)^2\right) - 3\frac{1}{4}\right) \div \frac{1}{6}$

-18

5) $\frac{2}{9} \div \left(\left(-\frac{5}{2}\right) \times \frac{2}{9}\right)^2$

$\frac{18}{25}$

6) $((-3.6 + 0.7^2) - 2.81) \times (1.5^2 \div 2.5)$

-5.328

7) $\left(\frac{7}{8} - \frac{5}{8}\right)^2 \times \left(\left(-\frac{7}{12}\right) \div \frac{7}{16}\right)$

$-\frac{1}{12}$

8) $((4.7 + 6.6) - 9.9)^3 \div 4.9$

0.56