

Order of Operations PRACTICE Homework

Name Answer Key
 Period _____ Date _____

Simplify each expression. Show all work!

$$\begin{aligned}
 1. \quad & 6(-5 + 2^2) \\
 & 6(-5 + 4) \\
 & 6(-1) \\
 & -6
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & 5^2 + 12 \div -4 \\
 & 25 + 12 \div -4 \\
 & 25 + -3 \\
 & 22
 \end{aligned}$$

-2, -2, -2

$$\begin{aligned}
 3. \quad & (-2)^3 + 3^2 - 10 \\
 & -8 + 9 + -10 \\
 & 1 + (-10) \\
 & -9
 \end{aligned}$$

$$\begin{aligned}
 4. \quad & -30 \div -6 \times -3 + 4^2 - 10 \\
 & -30 \div -6 \times -3 + 16 - 10 \\
 & 5 \times -3 + 16 - 10 \\
 & -15 + 16 - 10 \\
 & 1 - 10 = -9
 \end{aligned}$$

$$\begin{aligned}
 5. \quad & \frac{6^2}{4} + (-10 \div 5) \\
 & \frac{36}{4} + (-15) \\
 & 9 + (-15) = -6
 \end{aligned}$$

$$\begin{aligned}
 6. \quad & \frac{2^4}{4} + (-10 \div 2 + -9) \\
 & \frac{16}{4} + (-5 + -9) \\
 & 4 + (-14) = -10
 \end{aligned}$$

$$\begin{aligned}
 7. \quad & \frac{6(2+3)}{2(1+2)} + 7 \\
 & \frac{30}{6} + 7 = 5 + 7 = 12
 \end{aligned}$$

$$\begin{aligned}
 8. \quad & -10 \div 2 + 12 \times 3 - 1^2 \\
 & -10 \div 2 + 12 \times 3 - 1 \\
 & -5 + 12 \times 3 - 1 \\
 & -5 + 36 - 1 \\
 & 31 - 1 = 30
 \end{aligned}$$

$$\begin{aligned}
 9. \quad & 4[(18 - 10) \times 3 - 8] \\
 & 4[(8 \times 3 - 8)] \\
 & 4[24 - 8] \\
 & 4(16) \\
 & 64
 \end{aligned}$$

$$\begin{aligned}
 10. \quad & 81 \div 9 + 13 \times 3 - 20 + 4 \\
 & 9 + 13 \times 3 - 20 + 4 \\
 & 9 + 39 - 20 + 4 \\
 & 48 - 20 + 4 \\
 & 28 + 4 \\
 & 32
 \end{aligned}$$