

Lesson 15 ~ Order of Operations

Name _____ Period _____ Date _____

Find the value of each expression. Show all work.

1. $8(3 + 2) - 12$

2. $4 \cdot 3 + 2 \cdot 9 - 40$

3. $(-5 + 3)^2 + 8$

4. $\frac{(2 + 4)^2}{-2}$

5. $-10(1 + 4) - 5$

6. $\frac{8}{(-3 + 1)^3} + 1$

7. $\frac{5(2 + 1)}{-2 + (-1)} + 2(-3)$

8. $10 + \frac{2(5 - 1)^2}{4 - 2}$

9. $\frac{3 + 4}{14} + \frac{1}{10 - 3}$

10. $24 - 2(-3) + \frac{10^2}{20}$

11. Four friends order sandwiches for \$15, a bottle of juice for \$4 and a container of cookies for \$3. The friends want to evenly split the costs. Write an expression to represent this situation and determine how much each friend owes.

Insert one set of parentheses in each numerical expression so that it equals the stated amount.

12. $5 \times 2 + 8 \div 5 = 10$

13. $16 \div 4 - 2 + 1 \times 2 = -2$