Name: _____ **Date:** ____/____ **Period:** ____

Order of Operations with Integers

Circle the part of the expression that you would complete first.

1. $-4 \times 32 + 6$
2. $4(13 - 6)$
3. $(6 + 2) - 15 \div 5 \times 2$
4. $3 \times (-2)^3 \div 6$
5. $8 - 4(2 + 5^2) \div 12$

Simplify.

6. $42 \div -6 + 5$
7. $-64 \div 4(2 - 6)$
8. $4(-12 + 6) \div 3$
9. $-12^2 \div 4 - 3 \times 2^4$
10. $-6 \times 8 - (4^2 + 2) + 72 \div -8$
11. $6^2 + -14 \div 2 - (-8)$
12. $9 \div 3 + 7 \times 4 \div 2$
13. $12 \div 6 + 5^2 \times 3$
14. $-4(1+ 5)^2 \div 6 - (42+5)$
15. $7(5 + 3) \div 4(9 - 2)$

Compare the two expressions using an inequality symbol. Prove it.

16. $3^3 + 5 \times 3$ _____ $2 + 8(35 \div 7)$

17. $8 \times (-2) - (-4)^2$ _____ $34 \div 9 + 2 \times 5$

18. $5 \times 2^2 - 2^3(-6+3)$ _____ $6(2 + 9) - 3^3 \div 9 - 4$

19. Using the numbers -4, 10, 8, 2, -3, -5, create two expressions that equal 6.

20. Using integers, write an expression that shows the meaning of these words. Then evaluate each expression.

a. The difference of negative thirteen and eight multiplied by the square of two.

b. Half of the sum of six and three then divided by seven.