

8/24/16

Name KEY

Attach any worksheets you use to this when you hand it in. Decide whether each statement is true or false.

1. $3[5(-2) - 6(6)] > 138 \rightarrow 3[-10 - 36] > 138 \rightarrow 3[-46] > 138 \rightarrow -138 > 138$ FALSE
2. $(-5)^2 + 12^2 = 13^2 \rightarrow 25 + 144 = 169 \rightarrow 169 = 169$ TRUE

Select the smaller number from each pair.

3. $(-2\frac{1}{2}), (-2)$

4. $|-12|, |-15|$

5. If x and y are both negative numbers, is $\frac{xy}{x+y}$ positive or negative? $\rightarrow \frac{-1 \cdot -1}{-1 + (-1)} = \frac{+}{-} = -$
 Pick a number for x or y

Perform the indicated operations.

6. $-11 - (6 - 8) + |-9| \quad -11 - (-2) + 9 \rightarrow -9 + 9 = 0$

7. $-15 - 6(10 - 12) \quad -15 - 6(-2) \rightarrow -15 + 12 = -3$

8. $4^2 - (16 - 2^3) - (-3) \quad 16 - (16 - 12) - (-3) \rightarrow 16 - (4) - (-3) \rightarrow 16 - 4 - (-3) \rightarrow 12 - (-3) = 15$

9. $(6)(-4) + 7(-4) - 8 \quad -24 + -36 = -60$

10. $|-6 + 3| - (-4)^2 \quad 3 - (-4)^2 \rightarrow 3 - 16 = -13$

11. $|-6 + 3| - 4^2 \quad 3 \cdot (-4^2) = -48$

12. $(3)(8) \div 6(-2) \quad 24 \div -12 = -2$

13. $\frac{-8 - (-4 + 2)}{(-3)(-2)} \quad \frac{-8 - (-2)}{6} = \frac{-6}{6} = -1$

14. $-8[4 - (-2 + 6) + 1] = -8[4 - (4) + 1] = -8[1] = -8$

15. $\frac{3(-3) + 6}{4^2 + (-2)(8)} = \frac{-3}{16 + -16} = \frac{-3}{0}$