

Inequalities... And Some Equalities...

Fill in the blank with the correct symbol to make the statement true!

1. $2 \underline{\hspace{1cm}} 5$

2. $-1 \underline{\hspace{1cm}} -7$

3. $-6 \underline{\hspace{1cm}} 2$

4. $-2 \underline{\hspace{1cm}} -9$

5. $-13 \underline{\hspace{1cm}} -11$

6. $0 \underline{\hspace{1cm}} -5$

7. $64 \div 4 \cdot 2 \underline{\hspace{1cm}} 250 \div 5 \cdot 2$

8. $13 + 9 \cdot 5 \underline{\hspace{1cm}} 11 + 7 \cdot 6$

9. $30 - 3(4 + 2) \underline{\hspace{1cm}} 12 + 64 \div 8 - 4$

10. $5 + 4|1 + 7(3)| \underline{\hspace{1cm}} 5|3 + 4(2)^2|$

11. $\frac{2(8^2-4)+8}{29-3^3} \underline{\hspace{1cm}} \frac{6(3^2-1)+8}{8-2^2}$

12. $\frac{4(6+2)+8(8-3)}{6(4-2)-2^2} \underline{\hspace{1cm}} \frac{6(5+1)-9(1+1)}{5(8-6)-2^3}$

Tell me if the following statements are true or false... You might have to do some simplifying...

13. $9 \cdot 3 - 11 \leq 16$

14. $9 \cdot 3 + 4 \cdot 5 \geq 48$

15. $45 \geq 2[2 + 3(2 + 5)]$

16. $55 \geq 3[4 + 3(4 + 1)]$

17. $\frac{3+5(4-1)}{2 \cdot 4+1} \geq 3$

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

19. $3 > \frac{2(5+1)-3(1+1)}{5(8-6)-4 \cdot 2}$

20. $7 < \frac{3(8-3)+2(4-1)}{9(6-2)-11(5-2)}$