

Math 7 - Chapter 4 Inequalities Review Worksheet

34 Q, 25 pt.

Problems 1-6: Use the following symbols to answer the questions: =, <, >, ≤, ≥.

- | | |
|--------------------|----------------------|
| 1. is at most ≤ | 4. is greater than > |
| 2. is fewer than < | 5. is no more than ≤ |
| 3. is at least ≥ | 6. is less than < |

Problem 7-17: Solve each inequality and graph the solution on the number line.

7. $x - 4 < 9$ $x < 13$



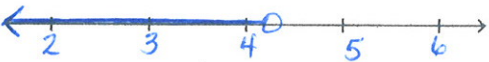
8. $-5 \leq q + 12$ $q \geq -17$



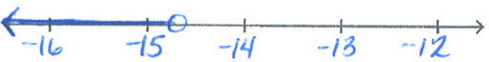
9. $-3p \geq -27$ $p \leq 9$



10. $\frac{3}{4} + y < 5$ $y < 4\frac{1}{4}$



11. $s + 6.1 < -8.7$ $s < -14.8$



12. $4b + 2 \leq -22$ $b \leq -6$



13. $-4b + 2 < 30$ $b > -7$



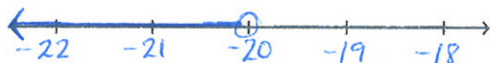
14. $\frac{x}{2} - 2 < -1$ $x < 2$



15. $2 > \frac{j}{4} - 1$ $j > -12$



16. $\frac{3}{4}x + 6 < -9$ $x < -20$



17. $5.3 \geq 0.4x + 2.1$ $x \leq 8$



Problems 18-20: Translate the verbal sentence into an inequality and solve.

18. Thirty-four is less than the sum of a number and negative thirteen.

$34 < x + (-13)$ $x > 47$

20. Twenty four is at most the product of three and a number.

$24 \leq 3x$ $x \geq 8$

19. The difference of negative six and a number is no more than twelve.

$-6 - x \leq 12$ $x \geq -18$