

Math 7 - Chapter 4 Semester Review Worksheet**Problems 1-14: Use the following symbols to answer the questions: +, -, ×, ÷, =, <, >, ≤, ≥.**

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|-----------------|---------------------|
| 1. sum | 8. twice |
| 2. less than | 9. is at most |
| 3. quotient | 10. is fewer than |
| 4. difference | 11. is at least |
| 5. product | 12. is greater than |
| 6. more than | 13. is less than |
| 7. increased by | 14. is no more than |

Problems 15-26: Solve and check each equation.

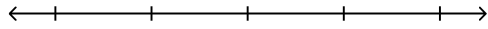
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|--------------------------|--|
| 15. $m - 2 = -5$ | 21. $19r + 51 = 32$ |
| 16. $-2x = 12$ | 22. $15s - 4 = -124$ |
| 17. $-19 = \frac{x}{-2}$ | 23. $-2b + 31 = 19$ |
| 18. $-6.9x = -13.8$ | 24. $30.8 + 7.7p = 53.9$ |
| 19. $12 = -\frac{2}{3}x$ | 25. $\frac{k}{16} - \frac{3}{4} = \frac{3}{8}$ |
| 20. $6g - 3 = 39$ | 26. $-3(x - 2) = -9$ |

Problems 27-31: Translate each sentence into an equation, then find the number.

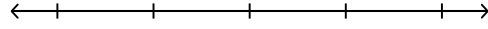
- The product of a number and negative four is -56.
- The quotient of a number and negative five is 6.
- Two times the sum of a number and four is negative twenty.
- Six less than the product of three and a number is -18.
- Fourty-eight is twice a number more than ten.

Problems 32-42: Solve and graph each inequality.

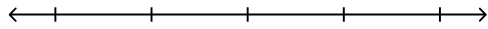
32. $x - 9 < 2.$



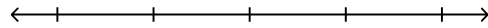
38. $-10b + 3 < 13$



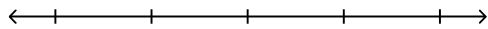
33. $-7 \leq q + 12.$



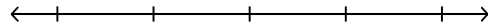
39. $\frac{w}{4} - 4.5 \geq -0.5$



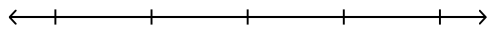
34. $-3p > -57$



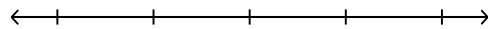
40. $4 > \frac{j}{-6} - 8$



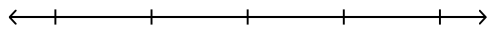
35. $\frac{3}{4} + y \leq 4$



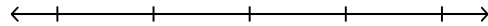
41. $\frac{2}{5}x + 4 < -6$



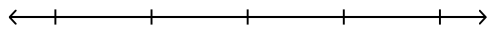
36. $s + 3.3 < -12.9$



42. $4.8 \geq 0.6x + 1.8$



37. $2b + 3 \leq -5$

**Problems 43-45: Translate the verbal sentence into an inequality and solve.**

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

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

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