**Course 2 Unit 8: Inequalities Review Name:**

**Write the inequality in words.**

1. a > 54

2. b < 2.3

3. c ≥ 4.56

4. d ≤ 8$\frac{1}{2}$

5. e ≠ 10

**Graph the inequality.**

6. f < -4

7. g > 8.9 

8. h ≤ -4.5 

9. i ≥ $\frac{7}{9}$ 

10. j <- $\frac{2}{3}$ 

11. k > 4$\frac{7}{12}$ 

12. l ≤ -8$\frac{9}{10}$ 

13. m $\ne $ 5 

**Solve the inequality and then graph the solution.**

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| **Inequality** | **Solution** | **Graph** |
| 14. n + 19 > 54 |  |  |
| 15. p + 12.9 < 91 |  |  |
| 16. q + $\frac{1}{8}$ ≤ 4 $\frac{1}{4}$ |  |  |
| 17. r – 87 ≥ 101 |  |  |
| 18. s - $\frac{2}{9}$ < 7 $\frac{6}{7}$ |  |  |
| 19. t – 4.06 > 9.4 |  |  |
| 20. 12u ≥ 156 |  |  |
| 21. 2.4v ≤ 0.72 |  |  |
| 22. $\frac{4}{5}$ w < $\frac{9}{11}$ |  |  |
| 23. $\frac{x}{11}$ ≤ 19 |  |  |
| 24.$\frac{y}{3.8}$ > 5.2 |  |  |
| 25. $\frac{z}{7}$ ≥ $\frac{11}{12}$ |  |  |

**Write, solve, and graph the inequality.**

26. The sum of a number x and 28 is less than or equal to 215.

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| Inequality | Solution | Graph |

27. The quotient of a number j and 15 is greater than 2$\frac{5}{7}$.

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| Inequality | Solution | Graph |

28. The difference of a number k and 23.7 is less than 59.

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| Inequality | Solution | Graph |

29. The product of a number r and 16 is greater than or equal to 62.

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| Inequality | Solution | Graph |

30. Half a number u is less than or equal to 105.

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| Inequality | Solution | Graph |