Name_____ Date _____

Chapter 2 Cumulative Review

In Exercises 1–4, add or subtract.

1. $5 - 8$ **2.** $-1 + (-17)$ **3.** $-5 - (-7)$ **4.** $20 + (-3)$

In Exercises 5–8, multiply or divide.

5. $-9(8)$ **6.** $-19 \bullet (-2)$ **7.** $-42 \div 6$ **8.** $52 \div (-4)$

In Exercises 9 and 10, write and solve an equation to answer the question.

9. You and your friend chip in to buy a new gaming computer, which costs $1024. How much do each of you pay for the new gaming computer?

10. It cost $510 to get your car fixed. If it was $375 for parts, how much did the mechanic charge for the work to fix your car?

In Exercises 11–16, solve the equation.

11. $5x - 10 = -10$ **12.** $36 = 12u - 3u$ **13.** $11 = 1 - w$

14. $8 = \frac{c}{7} + 4$ **15.** $17x - 3 - 5x = 45$ **16.** $\frac{z + 5}{2} = 3$

In Exercises 17–20, simplify the expression.

17. $|-0.4 \bullet 7|$ **18.** $-|14|$ **19.** $|12| - |-12|$ **20.** $\left|-\frac{24}{-2}\right|$

In Exercises 21–24, solve the equation.

21. $|x + 7| = 2$ **22.** $|d| = -2$ **23.** $-4|7x - 5| = 8$ **24.** $|2n - 10| - 6 = -4$

In Exercises 25–27, solve the literal equation for *y*.

25. $y - 3x = 9$ **26.** $3x + y = 7$ **27.** $32x - 8y = 64$

In Exercises 28–31, write the sentence as an inequality.

28. A number n is less than 4.

29. A number y minus 8 is greater than or equal to 10.

30. The number 21 is at least a number t times 3.

31. Two-thirds of a number b is no more than 12.

In Exercises 32–34, solve the inequality. Graph the solution.

32. $b + 4 - 8 \geq 9$ **33.** $28 - (-t) > -40 + 18$ **34.** $20 - 3z + 4z < 9 - 20$

In Exercises 35 and 36, write the sentence as an inequality. Then solve the inequality.

35. A number plus 12 is no more than 8.

36. The difference of 20 and a number is at least 15.

In Exercises 37–39, solve the inequality. Graph the solution.

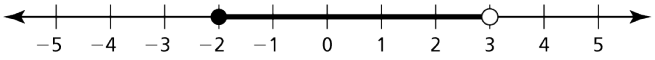
37. $3u - 7 \leq 14$ **38.** $-11 \geq 13 - 6n$ **39.** $7 + \frac{p}{3} < 2$

In Exercises 40–41, solve the inequality.

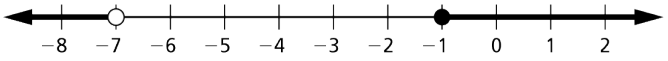
40. $3(g - 5) > 3g$ **41.** $2(h - 2) \leq -2(1 - h)$

In Exercises 42 and 43, write a compound inequality that is represented by the graph.

42.



43.



In Exercises 44–47, solve the inequality. Graph the solution.

44. $-1 < 9 + n < 17$ **45.** $-50 < 7k + 6 < -8$ **46.** $g + 5 \geq 12$ *or* $\frac{g}{9} < 0$

47. $2x < 10$ *or* $\frac{x}{2} \geq 3$

In Exercises 48–50, solve the inequality. Graph the solution, if possible.

48. $|2x - 8| < -10$ **49.** $|4w - 7| + 8 \geq 17$ **50.** $|10 + 4x| < 14$