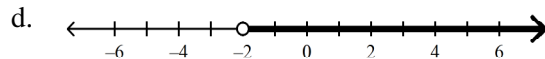
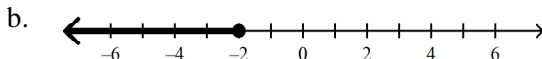
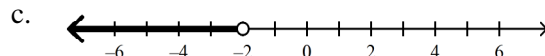
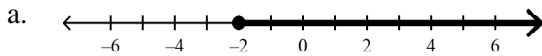


Chapter 2 Review**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Solve the equation.

- _____ 1. $-22 = p - 25$
a. 3 b. 47 c. -47 d. -3
- _____ 2. $\frac{y}{-20} = -3$
a. $\frac{3}{20}$ b. 17 c. -23 d. 60
- _____ 3. $-9p - 17 = 10$
a. -3 b. 16 c. 18 d. -16
- _____ 4. $\frac{w}{4} - 4 = 3$
a. -4 b. 28 c. 3 d. 11
- _____ 5. $5h - 9 = -16 + 6h$
a. 4 b. -7 c. 7 d. 10
- _____ 6. $-2(m - 30) = -6m$
a. -15 b. -13 c. -8 d. 8
- _____ 7. $-6 + 3x = -9$
a. -1 b. -6 c. -5 d. -3
- _____ 8. $78 = -2(m + 3) + m$
a. -28 b. -42 c. -72 d. -84
- _____ 9. $-\frac{1}{3}m - 7 = 5$
a. -4 b. -15 c. -36 d. 6
- _____ 10. $\frac{1}{4}y + 9 = \frac{1}{2}$
a. -34 b. 2 c. 9 d. 38
- _____ 11. Graph the inequality: $x \leq -2$.



Solve the inequality.

- _____ 12. $\frac{g}{-5} < -18$
 a. $g < -23$ b. $g > -90$ c. $g > 90$ d. $g < 90$
- _____ 13. $-7p - 16 > 82$
 a. $p < -9$ b. $p < -14$ c. $p > -14$ d. $p > 9$
- _____ 14. $42 < -6d$
 a. $d < 36$ b. $d < -7$
- _____ 15. $\frac{y}{-6} > 10$
 a. $y > -60$ b. $y < -60$

Write and solve an equation.

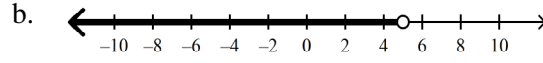
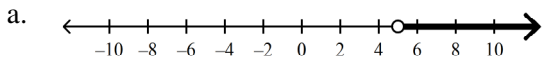
- _____ 16. A baseball bat and 8 baseballs cost \$163.25. The bat costs \$106.45. What is the cost c of one baseball?
 a. $163.25 - 8c = 106.45$; \$33.71 c. $8c + 163.25 = 106.45$; \$7.10
 b. $8c + 106.45 = 163.25$; \$7.10 d. $8c - 106.45 = 163.25$; \$33.71
- _____ 17. Raymond buys bottles of water at \$2.10 each and a large pizza at \$12.99. The total cost was \$21.39. How many bottles of water b did he buy?
 a. $2.10b + 12.99 = 21.39$; 4 bottles c. $2.10c = 21.39 + 12.99$; 16 bottles
 b. $2.10 + 12.99b = 21.39$; 4 bottles d. $21.39 - 2.10b = 12.99$; 16 bottles
- _____ 18. Five less than four times a number x is nine more than twice the number. What is the number?
 a. $4x - 5 = 2x - 9$; -2 c. $4x + 5 = 2x + 9$; 2
 b. $4x - 5 = 2x + 9$; 7 d. $2x - 5 = 4x + 9$; -7
- _____ 19. Katalin earns \$6.50 for each hour she works. On Friday she worked for 3 hours. She also worked on Saturday. If she earned a total of \$52.00 for the two days of work, how many hours did she work on Saturday?
 a. 6 hours b. 5 hours c. 7 hours d. 4 hours

Write and solve an inequality.

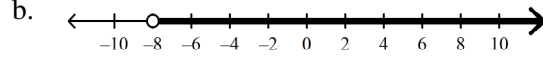
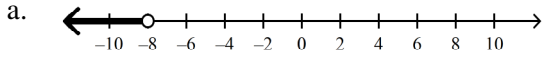
- _____ 20. The result of 6 subtracted from a number n is at least 2. What numbers are solutions?
 a. $n - 2 > 6$; $n > 8$ c. $n + 6 \leq 2$; $n \leq 4$
 b. $n - 6 \geq 2$; $n \geq 8$ d. $n + 6 \geq 2$; $n \geq 4$
- _____ 21. The daily cost of renting a car is \$23 plus \$.50 per mile. Jane's budget allows her to spend a maximum of \$110.50 for a 1-day rental. How many miles m may Jane drive the rental car in one day without exceeding her budget of \$110.50?
 a. $0.70m + 23 \leq 110.50$; 125 or fewer miles
 b. $23 \geq 110.50 - 0.70m$; 125 or fewer miles
 c. $110.50 \geq 23 + 0.70m$; 125 or more miles
 d. $0.70m + 23 > 110.50$; 125 or more miles

Graph the solutions of the inequality on a number line.

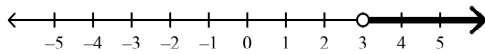
___ 22. $c < 5$



___ 23. $-8 > q$



___ 24. Write an inequality for the graph.



a. $x > 3$

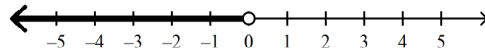
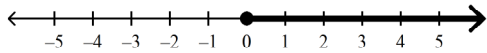
b. $x \geq 3$

___ 25. Write an inequality for the sentence. Graph the solution on a number line.

c is not less than zero.

a. $c \geq 0$

b. $c < 0$

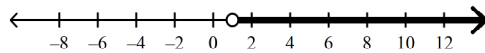
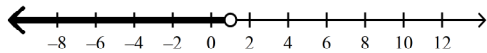


Solve the inequality. Graph the solutions.

___ 26. $h - 2 < -1$

a. $h < 1$

b. $h > 1$

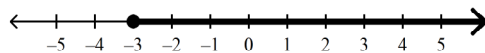
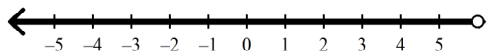


Solve and graph the inequality.

___ 27. $3m + 9 \leq 18$

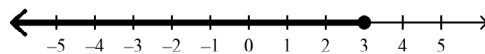
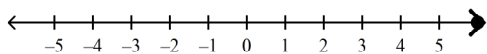
a. $m \leq 6$

c. $m \geq -3$



b. $m \geq 6$

d. $m \leq 3$



Short Answer

28. Caitlin had \$402 in her bank account. She withdrew \$15 each week to pay for a swimming lesson. She now has \$237.
- Write an equation that can be used to find the number of swimming lessons that she paid for.
 - How many swimming lessons did she pay for?
 - At the time she had \$237, the cost of a lesson rose to \$19. How many lessons can she pay for with her remaining \$237?
29. The sum of three consecutive integers is 72. Find the integers.

Essay

30. Michel is planning a graduation party at a restaurant. The function hall costs \$180 to rent and dinner costs \$16 per person. Michel has a budget of \$884.
- Write an inequality to model the number of guests g Michel may invite to the party.
 - Solve and graph the inequality. Show your work.

Other

31. Trisha and Jamie have three weeks to plan and save for a Halloween party. They estimate that they need \$90 for refreshments and they will share the cost equally. To find how much they should each save per week, they wrote the equation $2x = 30$. Explain the equation.
32. Explain how to solve the equation $3t + 11 = -10$. Show that your solution works.