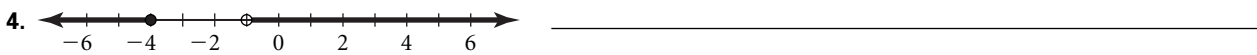
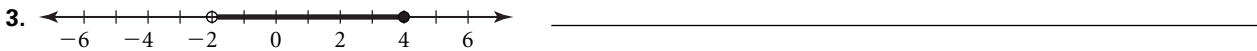
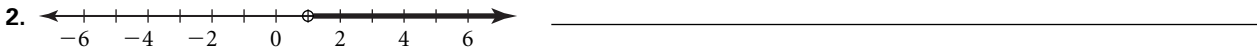
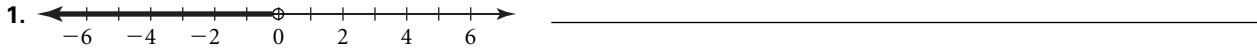




Practice Masters Level B

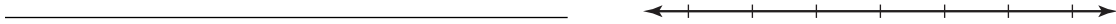
1.7 Introduction to Solving Inequalities

Write an inequality that describes each graph.



Solve each inequality, and graph the solution on the number line.

5. $2(x - 3) < 14$



6. $\frac{2}{3}(x - 12) \leq x + 5$



7. $-6(2y - 10) < 108$



8. $\frac{5}{3} - \frac{1}{4}x \geq \frac{-2}{3}x + \frac{1}{6}$



Graph the solution of each compound inequality on the number line.

9. $3x - 1 > 2$ or $2x + 6 < 2$

10. $4z + 6 > -10$ and $-3z - 5 > -17$

11. $10x - 4 < 6$ or $4x - 12 < 8$

12. $n + 1 < 4$ and $n - 1 > 4$

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Answers

18. $d_1 = \frac{2A}{d_2}$

19. $20 + 2x + x = 90; x = 23.3^\circ$

20. $c = 30 + 18.75h; 12 \text{ hours}$

Lesson 1.6

Level C

1. $x = -0.93$

2. $x = -1$

3. $x = 1$

4. $x = -8$

5. $x = -0.55$

6. $x = -1.59$

7. $x = -0.43$

8. $x = 1.29$

9. $x + \frac{4}{5}x = 90, 40^\circ \text{ and } 50^\circ$

10. a. $y = 225x + 1200$

b. \$4800

c. 24 months

11. a. Paul: $y = 5.75x + 150$

Rene: $y = 5.25x + 175$

b. 50 hours

c. Rene

Lesson 1.7

Level A

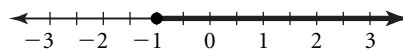
1. $n \geq 1$

2. $n < -1$

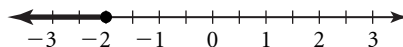
3. $n \geq -2$

4. $n < \frac{3}{2}$

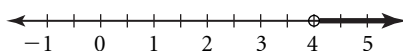
5. $x \geq -1$



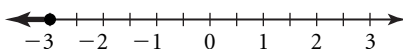
6. $y \leq -2$



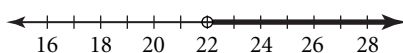
7. $z > 4$



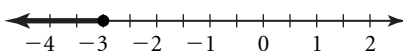
8. $x \leq -3$



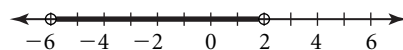
9. $x > 22$



10. $r \leq -3$

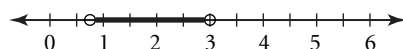


11. $x > -6 \text{ and } x < 2$



12. $8x - 2 > 4 \text{ or } 3x + 6 < 12;$

$x > \frac{3}{4} \text{ or } x < 3$



Lesson 1.7

Level B

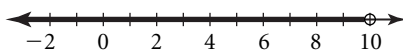
1. $n < 0$

2. $n > 1$

3. $n > -2 \text{ and } n \leq 4$

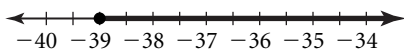
4. $n \leq -4 \text{ or } n > -1$

5. $x < 10$

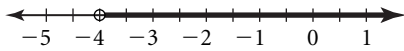


Answers

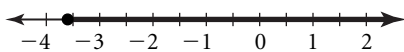
6. $x \geq -39$



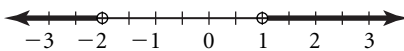
7. $y > -4$



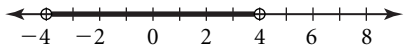
8. $x \geq -\frac{18}{5}$



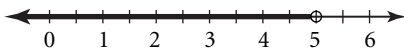
9. $x > 1$ or $x < -2$



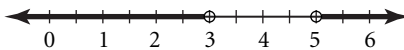
10. $z > -4$ and $z < 4$



11. $x < 5$ or $x < 1$

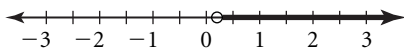


12. $n < 3$ and $n > 5$

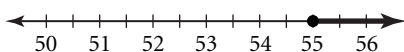


Lesson 1.7 Level C

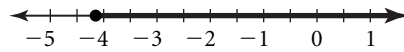
1. $t > \frac{1}{5}$



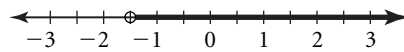
2. $m \geq 55$



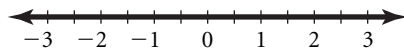
3. $t \geq -\frac{29}{7}$



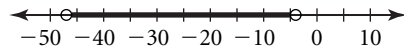
4. $m > -1.5$



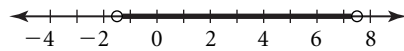
5. all real numbers



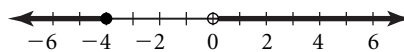
6. $w < -4$ and $w > -47$



7. $z > -1.75$ and $z < 7\frac{1}{2}$



8. $x \leq -4$ or $x > 0$



9. 7 days

10. $1.8 < x < 13$

Lesson 1.8 Level A

1. e

2. b

3. d

4. a

5. c

6. $x = 6$ or $x = 2$

