

Answers for Lesson 6-5, pp. 284–285 Exercises

1. An equation states that two expressions are equal; an inequality compares two expressions that are not usually equal.

2. $n \geq -2$

3. $0.6 \leq x$

4. $y - 4 > -4$

5. $y - 4 < 0$

6. $x < 12$

7. $x \geq 65$

8. $x > 26$ 

9. $m < -2$ 

10. $a > 14$ 

11. $7 \leq n$ 

12. $-10 > w$ 

13. $p < 0$ 

14. $x \geq -11$ 

15. $t \leq -2$ 

16. $m \geq 21$ 

17. $w < 1$ 

18. $b \geq -4$ 

19. $u < -10$ 

20. $x - 18 \geq 5$; $x \geq 23$

21. $12.5 + x \leq 20$; $x \leq 7.5$ amps

22. 148 gallons

23. You can add or subtract the same number from each side of an equation or inequality without changing the value of the variable. They are different in that an equation usually has one solution, but an inequality has an infinite number of solutions.

24. $x > -1$

25. $x \leq 0$

26. $x > \$10.01$

27. $>$

28. $<$

29. 6

30. 2

31. 5

32. $y > -a$

33. D

34. F

35. D

36. $\frac{19}{45}$

37. $\frac{5}{12}$

38. $1\frac{3}{22}$