

ANSWER PRESENTATION TOOL

Algebra 1 - Student Edit

2

1 - Exercises

1-58

ALL EVEN

Show Sol

ODD

1. inequality

2. no; If x is 5, then the value on the left simplifies to 8, which is not greater than 8.

3. Draw an open circle when a number is not part of the solution.
Draw a closed circle when a number is part of the solution.
Draw an arrow to the left or right to show that the graph continues in that direction.

4. w is no more than -7 ; $w \leq -7$; $w \geq -7$

5. $x > 3$

6. $n + 7 \leq 9$

7. $15 \leq \frac{t}{5}$

8. $3w < 18$

9. $\frac{1}{2}y > 22$

10. $3 < s + 4$

11. $13 \geq v - 1$

12. $4 \geq \frac{x}{2.1}$

13. $w \geq 1.7$

14. $x \leq 170$

15. no

16. no

17. yes

18. yes

19. yes

20. no

21. yes

22. no

23. yes

24. no

25. a. $h < 107$

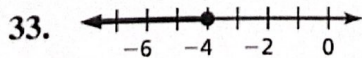
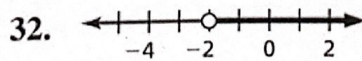
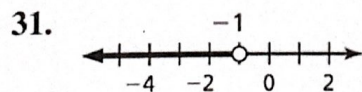
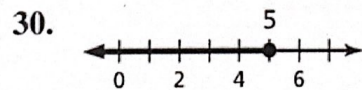
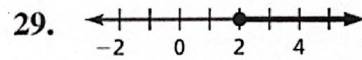
b. no; A height of 9 feet is equal to 108 inches, which is not less than 107 inches.

26. a. $x \leq 377$

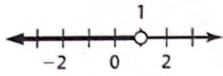
b. no; A weight of 379 pounds is not a solution of the inequality in part (a).

27. Because -1 is not less than -4 , the final result is not true; $-1 \not< -4$; 8 is not in the solution set.

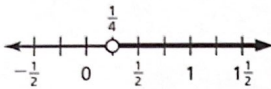
28. Because 6 equals 6, the final inequality is true; 8 is in the solution set.



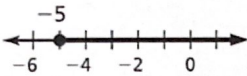
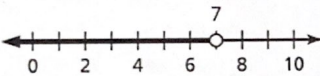
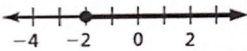
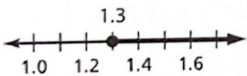
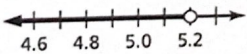
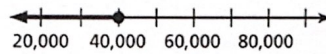
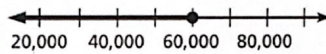
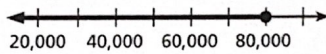
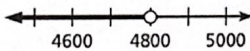
34.



35.



36.

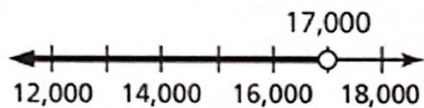
37. $x < 7$ 38. $n \geq -2$ 39. $1.3 \leq z$ 40. $5.2 > w$ 41. $x \leq 4$ 42. $x \geq -2$ 43. $x > 3$ 44. $x < -1$ 45. C; The temperature must be at least 2°F warmer, so the increase is represented by $x \geq 2$.46. 2 axles: $w \leq 40,000$ 3 axles: $w \leq 60,000$ 4 axles: $w \leq 80,000$ 47. $\ell < 4800$ 48. *Sample answer:* $h \leq \frac{25}{7}$ 49. *Sample answer:* You spend \$23 on admission and x dollars on snacks, and you can spend no more than \$31 total.50. a. $T \geq -38.87$ b. yes; The graph shows -38.87°C as the lowest possible melting point.

51. $0.90x \leq 24$; yes; Because $0.9(25) = \$22.50$, which is less than \$24, the inequality is true.

52. cousin; Because the inequality is "less than or equal to," a weight equal to the given amount is possible.

53. *Sample answer:* A temperature above the freezing point of water can be represented by $T > 0$ if the temperature is in degrees Celsius, or by $T > 32$ if the temperature is in degrees Fahrenheit.

54. $b < 17,000$



55. $x < 14$

56. $x \geq 1.6$

57. $x < 3$

58. $x > 6$