Your Name

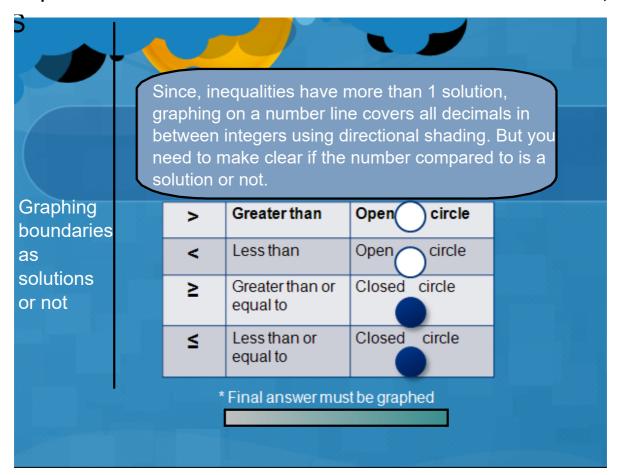
Mrs. T
| 0 / | / 20 2 ()
Notes

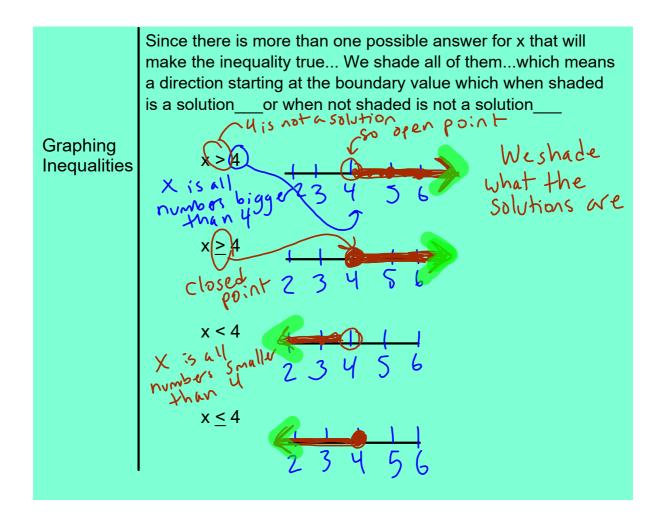
2.1 Graphing Inequalities

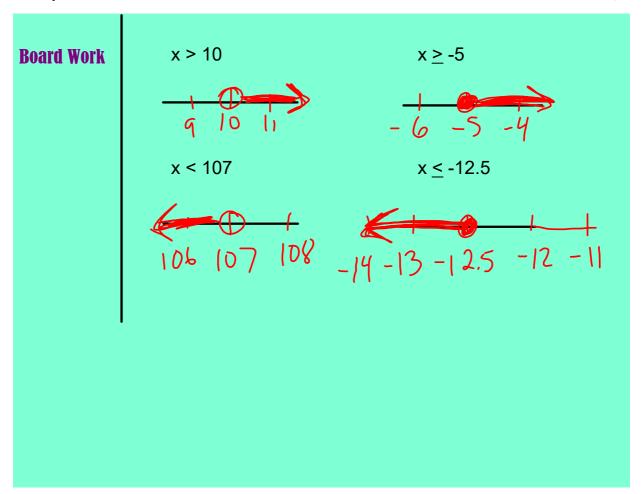
Objective: To be able to graph inequality solutions. To understand how to check solutions in inequalities.

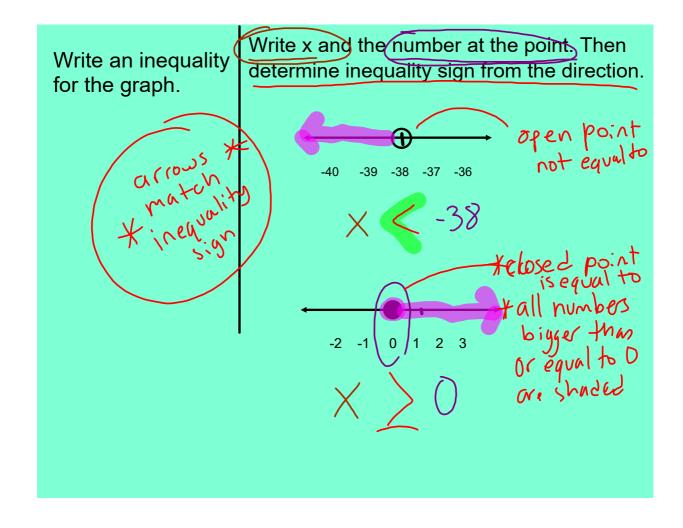
Life Lesson/Skill: When we graph inequalities with two variables on a coordinate plane, we need to be able to check our solutions to understand how to shade.

Graphing on a number line is similar to graphing on a coordinate plane.









Set.

29.

30.

5

0 2 4 6

31.

-4 -2 0 2

32.

-4 -2 0 2

33.

-6 -4 -2 0

34.

-7 0 2 1 12

36.

-5

-6 -4 -2 0

37. x < 70 2 4 6 8 10

38. $n \ge -2$ -4 -2 0 2

39. $1.3 \le z$ 13

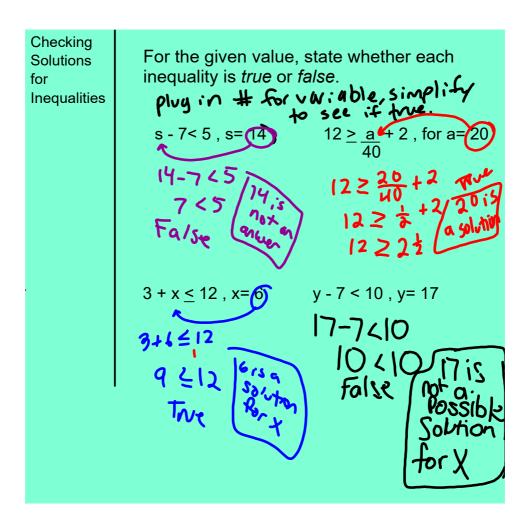
10 1.2 1.4 1.6

40. 5.2 > w46 4.8 5.0 5.2

41. $x \le 4$ 42. $x \ge -2$ 43. x > 3

Homework Key

45. the graph C is matches. The temperature must be at least $2^{\circ}F$ warmer, so the increase is represented by $x \ge 2$



$$\begin{array}{c} x + 2 \leq 10 \\ 8 + 2 \leq 10 \\ 10 \leq 10 \end{array}$$

$$\begin{array}{c} 10 \leq 10 \\ 4 \leq 10 \\ 3 + 2 \leq 10 \\ 5 \leq 10 \\ 5 \leq 10 \end{array}$$

Homework Key: Your homework should have the work to verify these for credit.

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.