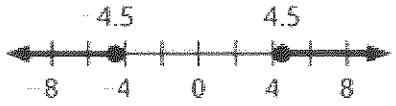
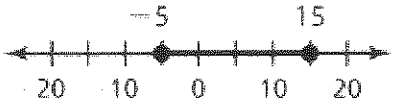
2. Solving $|w - 9| \leq 2$ requires a compound inequality joined by "and." Solving $|w - 9| \geq 2$ requires a compound inequality joined by "or."

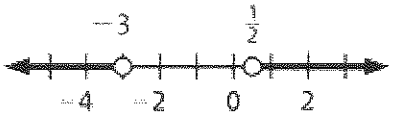
4. $y \leq -4.5$ or $y \geq 4.5$



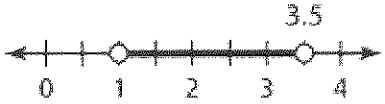
6. $-5 \leq h \leq 15$



8. $c < -3$ or $c > \frac{1}{2}$



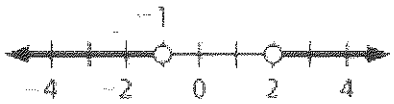
10. $1 < n < 3.5$



12. all real numbers

14. all real numbers

16. $u > 2$ or $u < -1$



18. $-6 \le v \le 3$

20. $|T - 37| \le 3$; 34°C to 40°C

22. The compound inequality should be joined by "or;" and bo inequality symbols are reversed; $x + 4 < -13$ or $x + 4 > 1$ $x < -17$ or $x > 9$

24. $|n - 3| > 9$; $n < -6$ or $n > 12$

26. $|2n + 1| \ge 10$; $n \le -\frac{11}{2}$ or $n \ge \frac{9}{2}$

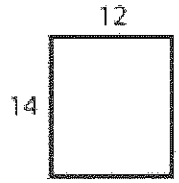
28. $d = 0.86$

30. $|2(x + 1) + 2 \cdot 3 - 4x| \le 3$; $\frac{5}{2} \le x \le \frac{11}{2}$

32. false; It could also be a solution of $x + 3 < -8$.

34. true

36. *Sample answer:*



38. *Sample answer:* $|x - 2| \geq 3$; $|x - 2| < 3$; $|x - 2| \leq 3$; $|x - 2| > 3$; A segment indicated $<$, two opposite rays indicated $>$, and an open or closed circle indicated whether or not to add "or equal to."

40. $6 < x < 7$; *Sample answer:* Solve each inequality, then draw a sketch of the 2 solutions on the same number line to see where they intersect.

42. -5

44. 0

46.