

11. $n = 2$

13. No, an absolute value equation will not work because the value of x would have to be negative for the perimeter to be 6 feet plus or minus 1.5 feet, and an absolute value expression cannot have a negative value.

15. $x = -3, x = 3$

17. $x = -12, x = 12$

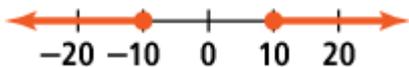
19. $x = -6, x = 14$

21. $x = -18, x = 2$

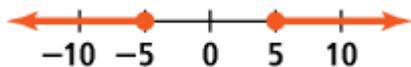
23. no solution

25. $|5x - 10| = 2.5$; minimum: 1.5 hours; maximum: 2.5 hours

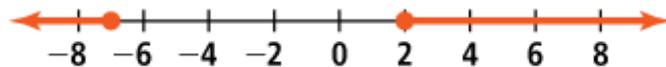
27. $x \leq -10$ or $x \geq 10$;



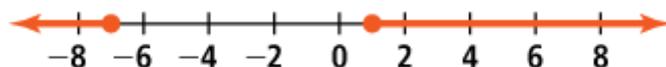
29. $x \leq -5$ or $x \geq 5$;



31. $x \leq -7$ or $x \geq 2$;



33. $x \leq -7$ or $x \geq -1$;



35. B

37. A

- 39.** The difference between the actual length of a case x and 125 mm must, at most, be within 0.25 mm. The inequality $|x - 125| \leq 0.25$ can be used to represent this acceptable range of lengths. Therefore, the range of lengths of cases that should be removed can be represented by the absolute value inequality $|x - 125| > 0.25$.
- 41.** $|2.50x - 25| \leq 0.50$; $9.8 \leq x \leq 10.2$; Between 9.8 and 10.2 gallons will be pumped.
- 43.** A