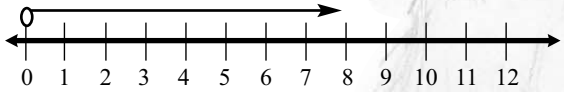
Chapter 4 Test Key

1. Real
2. set
3. Whole
4. Integers
5. irrational
6. undefined
7. $12\sqrt{30}$
8. (d) Real, Rational, Integers
9. (c) Real, Rational, Integers, Whole numbers
10. (a) Real, Rational
11. (b) Real, Irrational
12. $3\sqrt{3}$
13. $\frac{3\sqrt{11}}{11}$
14. $2\sqrt{5}$
15. $x > 0$



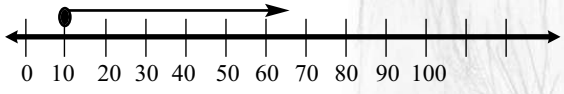
16. $x < -1$



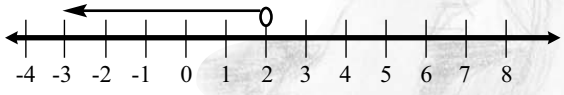
17. $x \geq 2$



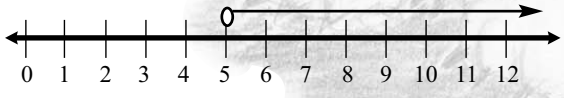
18.



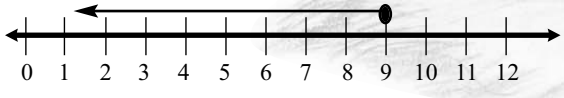
19.



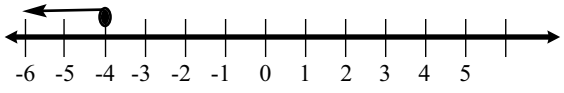
20. $8x + 1 > 41$



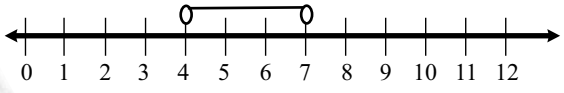
21. $4x - 6 \leq 30$



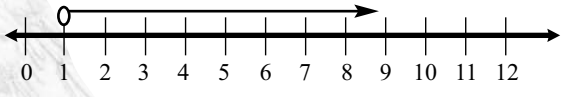
22. $9x - 27 \leq 6x - 39$



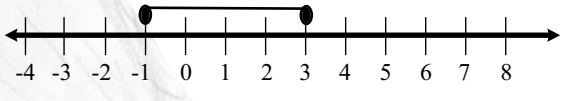
23. 20 years of age.
24. $x < -9$
25. $x < -2$
26. $x \leq -2$
27. $4 < x < 7$



28. $x > 1$



29. $-1 \leq x \leq 3$



30. half-open interval
31. half-open interval
32. closed interval
33. $\{x \mid x < 2\}$
34. $\{x \mid -2 < x \leq 3\}$
35. $\{x \mid -1 \leq x \leq 2\}$
36. $(-\infty, 3]$
37. (-1, 2]
38. $\{x \mid 8 < x \leq 12\}$
39. [7, 15]
40. 19
41. 51
42. 11
43. 2 units
44. $\sqrt{5}$
45. (30, 24)
46. (b)
47. (c)
48. (b)
49. (a)
50. (b)

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