

Chapter 2 answers

2.1

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|-----------------------|-------------------------|------------------------|--------------------|------------------------|------------|
| 1. No | 3. Yes | 5. Yes | 7. No | 9. Yes | 11. {18} |
| 13. {26} | 15. {21} | 17. {45} | 19. {6} | 21. {4} | 23. {3} |
| 25. {2} | 27. {69} | 29. {-5} | 31. {18} | 33. {7} | 35. {0} |
| 37. {3} | 39. {-3} | 41. $\{-\frac{3}{2}\}$ | 43. {0} | 45. {-8} | 47. {-40} |
| 49. $\{\frac{5}{3}\}$ | 51. $\{-\frac{28}{9}\}$ | 53. {2} | 55. {-3} | 57. $\{\frac{1}{2}\}$ | 59. {5} |
| 61. {2} | 63. $\{-\frac{11}{3}\}$ | 65. {6} | 67. {-4} | 69. $\{\frac{23}{6}\}$ | 71. 27 |
| 73. 150 | 75. 46.2% | 77. 14.3 | 79. 25 | 81. 1500% | 83. 222.87 |
| 85. 8 | 87. \$11.88 | 89. 215 iphones | 91. 24,000 runners | | |
| 93. 3400 people | 95. 4% increase | 97. 65% markup | 99. 660 people | | |

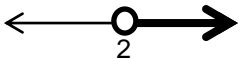
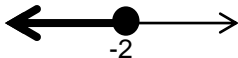
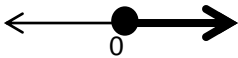
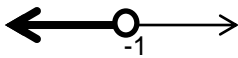
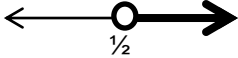
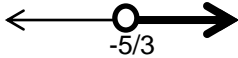
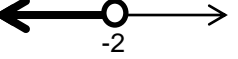
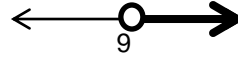
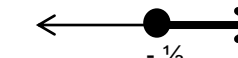
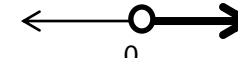
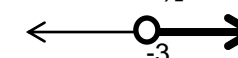
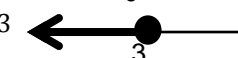
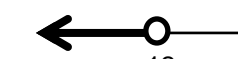
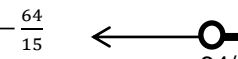
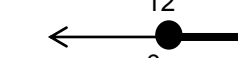
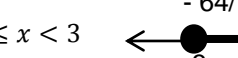
2.2

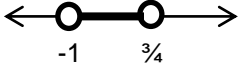
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|-------------------------|------------------------|-----------------------|--------------------------|-------------------------|-------------------------|
| 1. {7} | 3. {2} | 5. $\{\frac{16}{5}\}$ | 7. $\{\frac{6}{5}\}$ | 9. {-2} | 11. {-3} |
| 13. {-3} | 15. {4} | 17. {3} | 19. {-4} | 21. $\{\frac{27}{17}\}$ | 23. $\{\frac{25}{3}\}$ |
| 25. {3} | 27. $\{\frac{19}{8}\}$ | 29. {3} | 31. {1} | 33. {1} | 35. {1} |
| 37. $\{-\frac{5}{7}\}$ | 39. {2} | 41. {2} | 43. $\{-\frac{18}{17}\}$ | 45. $\{\frac{1}{2}\}$ | 47. {0} |
| 49. {0} | 51. $\{\frac{44}{9}\}$ | 53. {-20} | 55. {-3} | 57. {0} | 59. $\{-\frac{5}{32}\}$ |
| 61. $\{-\frac{8}{31}\}$ | 63. {40} | 65. {1300} | 67. {7000} | | |

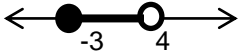
2.3

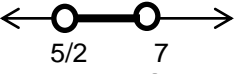
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|------------------------|------------------------|------------------|---------------------------|
| 1. 8 ft by 10 ft | 3. 12 cm by 19 cm | 5. 9 cm by 16 cm | 7. 18 m by 36 m |
| 9. 52 inches | 11. 14 inches | 13. 31 feet | 15. 8 in., 13 in., 15 in. |
| 17. $30^0, 60^0, 90^0$ | 19. $45^0, 60^0, 75^0$ | 21. 13, 14, 15 | 23. 15, 17, 19 |
| 25. 21, 22, 23 | 27. 3 hours | 29. 3 hours | 31. 5 L/min |
| 33. 16 hours | 35. 160 hours | 37. 49 women | 39. \$42,540 |
| 41. \$100,000 | 43. 22.2 gallons | 45. 11.5 seconds | 47. -40^0 |
| 49. 2500 units | 51. \$1,800 | 53. 24% | |

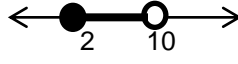
2.4

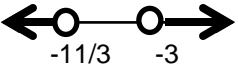
- | | |
|---|---|
| 1.  | 3.  |
| 5.  | 7.  |
| 9.  | 11.  |
| 13. $x < -2$  | 15. $x > -9$  |
| 17. $x \geq -\frac{1}{2}$  | 19. $x > 0$  |
| 21. $x > -3$  | 23. $x \leq 3$  |
| 25. $x < 12$  | 27. $x > -\frac{64}{15}$  |
| 29. $x \geq 0$  | 31. $-3 \leq x < 3$  |

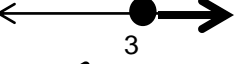
33. $-1 < x < \frac{3}{4}$ 

37. $-3 \leq x < 4$ 

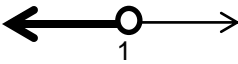
41. $\frac{5}{2} < x < 7$ 

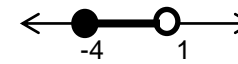
45. $10 > x \geq 2$ 

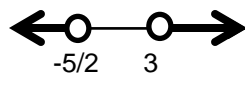
49. $x < -\frac{11}{3}$ or $x > -3$ 

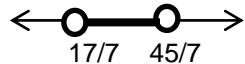
53. $x \geq 3$ 


57. all real numbers 

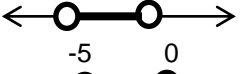
61. $x < 1$ 

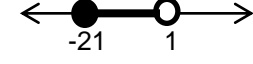
65. $-4 \leq x < 1$ 

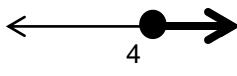
69. $x < -\frac{5}{2}$ or $x > 3$ 

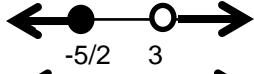
35. $\frac{17}{7} < x < \frac{45}{7}$ 

39. $3 \leq x \leq 5$ 

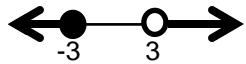
43. $0 > x > -5$ 

47. $1 > x \geq -21$ 

51. $x \geq 4$ 

55. $x \leq -\frac{5}{2}$ or $x > 3$ 

59. all real numbers 

63. $x \leq -3$ or $x > 3$ 

67. $x > 4$ 