

R6.1

1. a) yes                      b) no                      c) no                      d) yes  
 2. 25                              3. no; 69 and 36                      4. a)  $x=5$                       b)  $y=37$   
 5. a)  $k=23$                       b) 28                      6. 12 books                      7. a) 9                      b) 200  
 8. no; 12                      9. a)  $x \geq -2$                       b)  $x < 7$                       10. c  
 11. a) 42; 44; 46; 51; 66                      b) 20; 17; 15; 14; 13  
 12.  $y=x+4$ ; 7,24                      13. c  
 14. a) 8                      b) 21                      c) 20, 10                      15.  $40^0, 60^0, 80^0$

R6.2

16. a) 3:8                      b) 100:3                      17. 5:6                      18. a) equivalent  
       b) non-equivalent                      c) equivalent                      21. a) yes  
       b) no                      c) yes                      d) no                      e) no  
       f) yes                      22. a)  $\frac{55}{100} = 55\%$                       b)  $\frac{70}{100} = 70\%$   
       c)  $\frac{18}{100} = 18\%$                       23. yes                      24. a)  $\frac{9}{20}$                       b)  $\frac{4}{25}$                       c)  $\frac{41}{50}$   
       d)  $\frac{1}{10}$                       e)  $\frac{11}{50}$                       f)  $\frac{16}{25}$   
 25. a)  $\frac{33}{100}$ ; 0.33                      b)  $1\frac{2}{25}$ ; 1.08                      c)  $\frac{13}{250}$ ; 0.052  
 26. yes  
 27. a) 17.5                      b) 80                      c) 16.2                      d) 4.25                      e) 48  
       f) 675  
 28. 112.5  
 29. a) 25%                      b) 16.67%  
 30. 160

R6.3

31. a) -5                      b) 28                      c) 12                      d) 10  
 32. -6  
 33. a) -3                      b) -4                      c) -2  
 34. a)  $y=2x+1$ ; 15                      b)  $y=3x-1$ ; 26  
 35. a  
 36.  $S=2d+1$   
 37. X(-6,7), Y(-7,4), Z(-2,4), D(1,6), E(6,8), F(8,2), M(-1,-2), P(4,-2),  
       O(4,-5), N(-1,-5)  
 39. a) 11,14, 17; (2,11); (5,14); (8,17)                      b) 8,20,32; (2,8); (5,20); (8,32)  
 40. a) (1,-1), (3,1), (7,5)                      b) (1,1), (3,3), (7,7)                      41. yes

R6.4

42. a) 10 units                      b) 5 units                      c) 16 units  
 43.  $6^0F$                       47. b  
 48. Art gallery and Dry cleaners  
 49. a) \$250                      b) 2:30 P.M.                      c) October, March