

Multiple Choice.

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. B | 2. C | 3. A | 4. C | 5. A | 6. C | 7. B | 8. A |
| 9. D | 10. D | 11. D | 12. B | 13. C | 14. A | 15. B | 16. D |
| 17. B | 18. C | 19. B | 20. C | 21. B | 22. D | 23. C | 24. D |
| 25. D | 26. C | 27. B | 28. B | 29. C | 30. C | 31. D | 32. C |
| 33. A | 34. B | 35. A | 36. B | 37. C | 38. B | 39. D | 40. A |
| 41. C | 42. B | 43. D | 44. B | 45. A | 46. B | 47. C | 48. C |
| 49. B | 50. C | 51. C | 52. A | 53. C | 54. C | 55. B | 56. D |
| 57. B | 58. D | 59. C | 60. D | 61. A | 62. B | 63. C | 64. D |
| 65. C | 66. C | 67. B | 68. A | 69. C | 70. D | 71. A | 72. B |
| 73. D | 74. C | 75. C | 76. C | 77. A | 78. C | 79. C | 80. C |
| 81. D | 82. B | 83. B | 84. D | 85. A | | | |

Completion.

86. 20 87. 127 88. 518
89.

4	1	5	9	
5	1	2	6	9
6	5	6	8	
90. mean $\bar{x} = 74.3$ median = 74
 mode = 84 range = 43
91. $A'(3, -5); B'(4, -1); C'(1, 0)$

Short Response

92. $\frac{8}{n}$ 93. The most number of minutes allowed for phone calls is 75 minutes.
94. Sample equations are $2w + 2(5w) = 120$ or $12w = 120$. 95. The amount of lumber needed is $58 \frac{1}{2}$ feet.
96. The one gallon of orange juice is cheaper. A person would save 9¢ per quart or 36¢ if buying the gallon.
97. 40 more people prefer cats than dogs. When using the percents to multiply to determine how many people like cats and how many like dogs, you find out that 256 people like cats and 216 people like dogs. Subtracting those numbers leads to the number of people who prefer cats more.
98. The area of the circle is $19,904 \text{ ft}^2$.
99. The measure of the exterior angle is 45° . The sum of all exterior angles (one at each vertex) is 360° . Since there are 8 congruent angles in a regular octagon, divide 360° by 8 and you get how many degrees are in each angle.
100. She worked $10 \frac{1}{4}$ hours total.