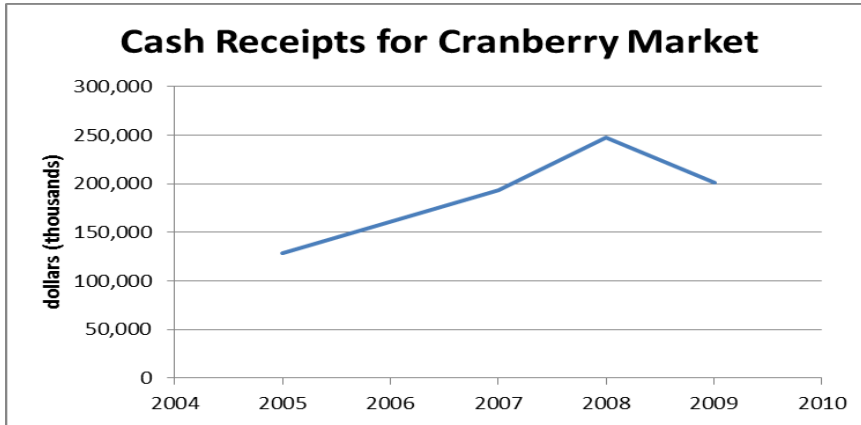


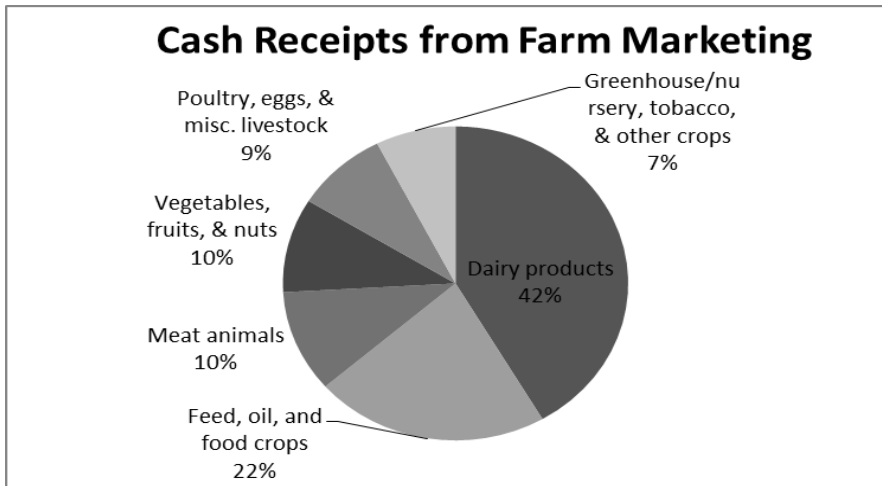
1.



2. Approximately \$160,000

3. Answers will vary. \$106,000 because the receipts decrease by \$47,000 thousand from 2008 to 2009. If that continues for 2 years, the receipts would drop to approximately \$106,000 thousand.

4.



5. Approximately \$85,000 thousand

6. Approximately \$75,000 thousand

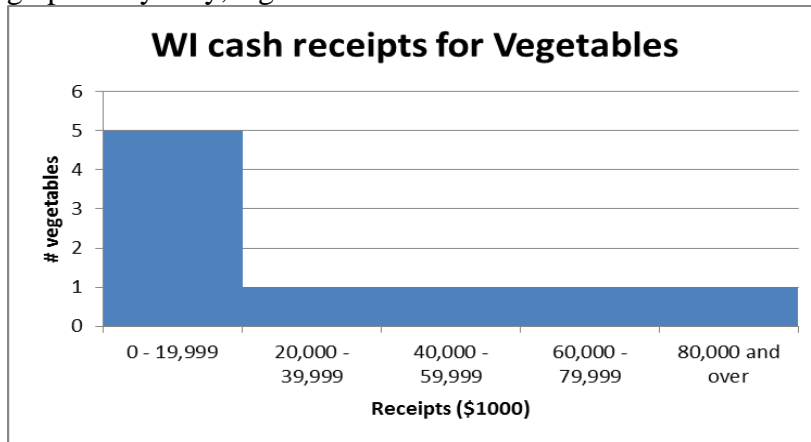
7. Approximately 100,000:75,000 or 4:3

8. Mean = \$49,778 thousand

9. Median = \$15,552 thousand

10. no mode

11. graphs may vary, e.g.

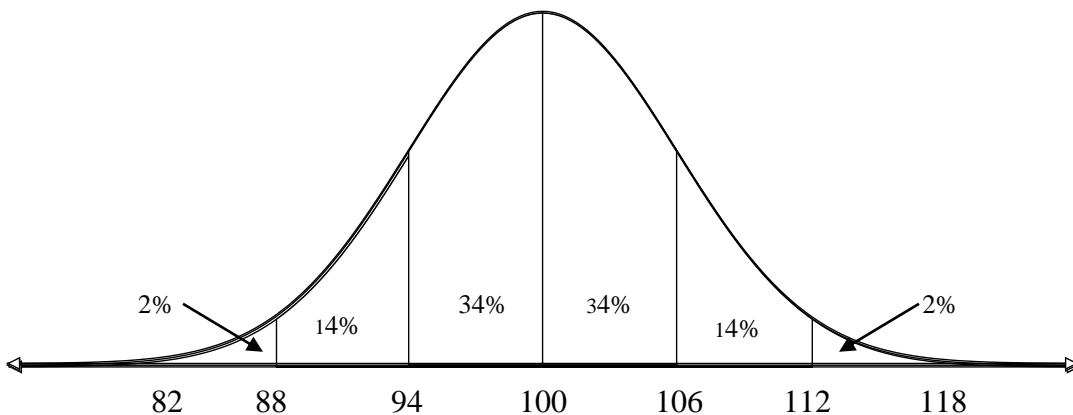


12. ${}_{12}P_4=11,880$ (permutation)

13. ${}_{35}C_5=324,632$ (combination)

14. $2 \times 4 \times 7 = 56$ (counting principle)

15. a)



b) 82%

c) 16%

d) 68% of 300 = 204

e) mean = 39.4 in; standard deviation = 2.4 in

16. $\frac{8}{50} = \frac{4}{25} = 16\%$

17. Odds of not selecting an original flavor = $42:8 = 21:4$

18. $\frac{13}{50}$

19. $\frac{8}{50} \cdot \frac{5}{49} = \frac{40}{2450} = \frac{4}{245}$

20. 59.7 km

21. 38.1 g

22. Surface area = sum of areas of all faces = $93.6\pi \text{ cm}^2$ or 294 cm^2

23. Volume = area of base x height = $115.3\pi \text{ cm}^3$ or 362 cm^3

24. c) 362 mL

25. Perimeter = sum of sides = 24 cm

26. First, must use Pythagorean Theorem to find the height of triangle = 8.5 cm, then area = 25.5 cm^2

27. $4.4 \text{ }^\circ\text{C}$