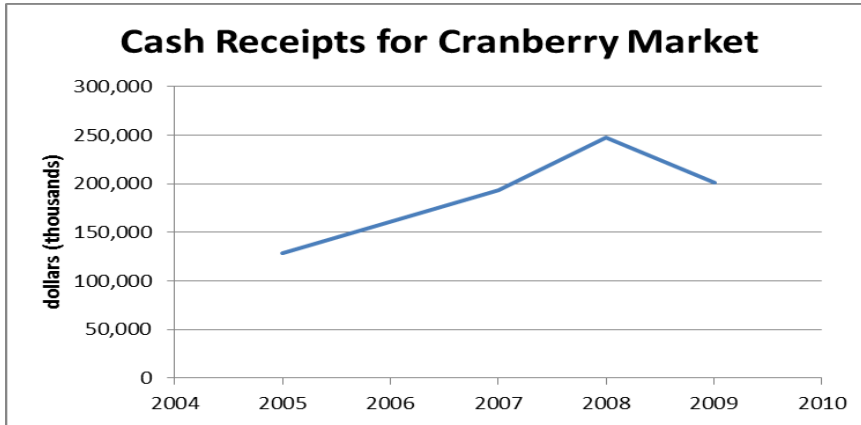


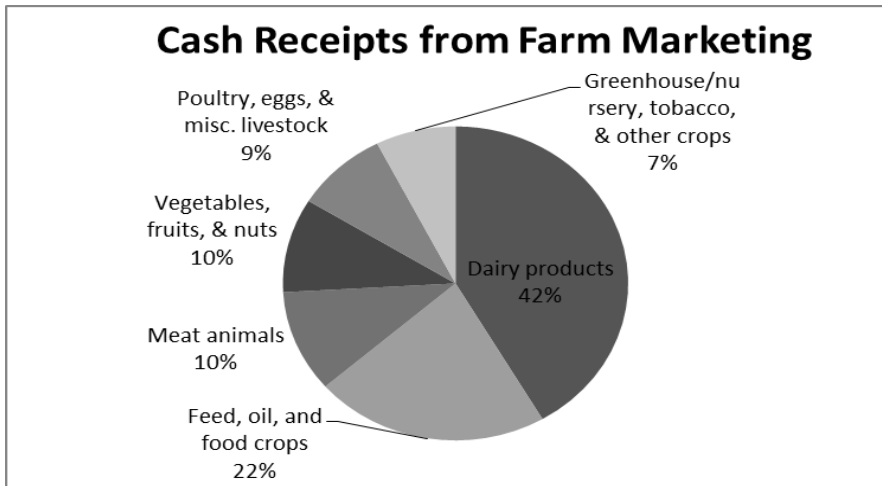
1.



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

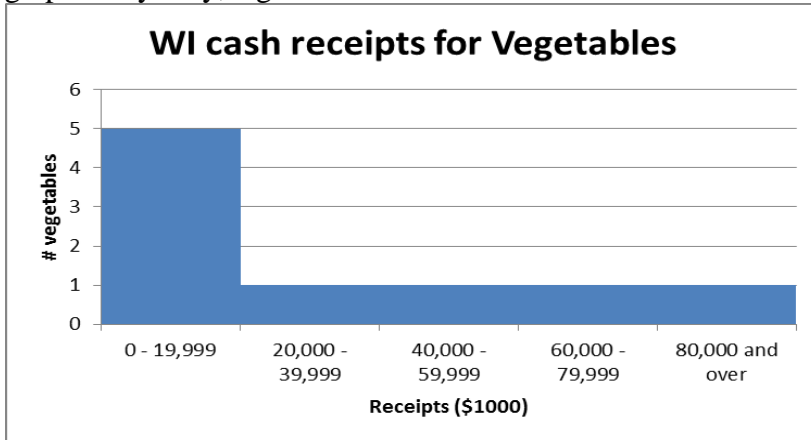
7. Approximately 100,000:75,000 or 4:3

8. Mean = \$49,778 thousand

9. Median = \$15,552 thousand

10. no mode

11. graphs may vary, e.g.

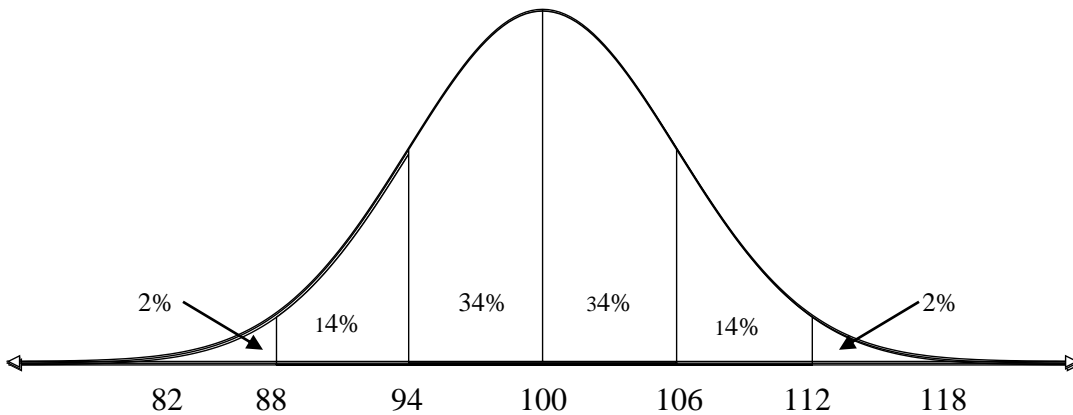


12.  ${}_{12}P_4 = 11,880$  (permutation)

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