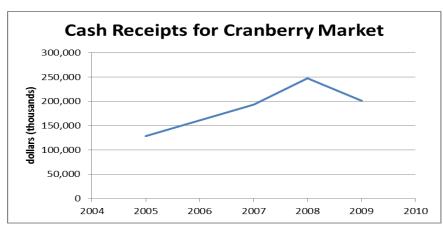
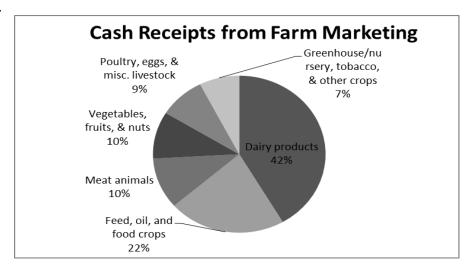
1.



- 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.

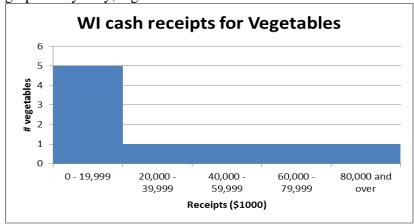
4.



- 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

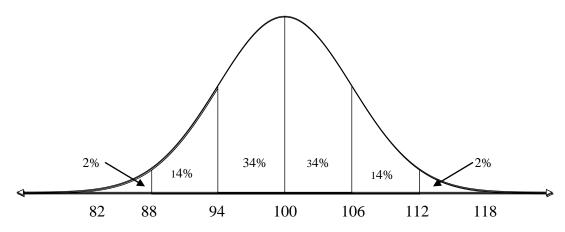
Copyright 2015. Alverno College Productions, Milwaukee, Wisconsin. All rights reserved under U.S., International and Universal Copyright Conventions. Reproduction in part or whole by any method is prohibited by law.

11. graphs may vary, e.g.



- 12. ₁₂P₄=11,880 (permutation)
- 13. 35C5=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.
$$\frac{8}{50} = \frac{4}{25} = 16\%$$

Copyright 2015. Alverno College Productions, Milwaukee, Wisconsin. All rights reserved under U.S., International and Universal Copyright Conventions. Reproduction in part or whole by any method is prohibited by law.

17. Odds of not selecting an original flavor = 42.8 = 21.4

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

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