

Unit 2 - Answers for the Test Review for Managing Your Money

1. 20%
2. 26.4%
3. 17.5%
4. sales tax = \$3.25, total cost = \$53.20
5. \$183.99
6. \$377,000
7. \$1,980.00
8. Chefs at 1.16% compared to the Food Service Managers at 1.06%
9. Two possible answers: 1) Estimate a year at 52 weeks, then multiply \$1,702.11 by 26 to get \$44,254.86.
10. Divide \$1,702.11 by 14 to get a daily average, then multiply that by 365 days to get \$44,376.44.
11. \$2,799.67
12. \$2,153.50
13. \$829.13
14. 29.1%
15. \$620.38
16. \$425.45
17. \$750
18. \$6,532.00
19. \$3,258.75
20. \$4,760
21. \$22.00; \$622.00
22. \$1,863; \$10,863; \$301.75
23. 4%
24. 5 years; \$16.00
25. a. \$35,000; b. \$40,710.04
26. 17.55%
27. 13.42%
28. \$9,354.16

29. \$20,925.96; Interest earned: \$2925.96
30. \$504.71
31. \$48,358.05
32. \$26.00, \$167.96
33. a. \$1,189; b. \$28.29; c. \$2,007.40; d. \$508.40
34. Amount financed = \$6,900; total installment price = \$10,300;
finance charge = \$2,100
35. \$102,084.73
36. Average daily balance = \$395.37; finance charge = \$19.77; new
balance = \$445.56
37. Average daily balance = \$229.02; finance charge = \$41.22;
new balance = \$318.34
38. Average daily balance = \$998.81; finance charge = \$18.98; new
balance = \$859.81
39. $(\text{Principal balance} \times \text{interest rate})/365.25$
40. $(\text{Days in Month})(\text{Daily interest amount})$
41. 4 Years and 3 Months
42. \$46.34
43. Yearly: \$621.60; Daily: \$1.7018; Monthly: \$51.0540; Total
Interest: \$2,639.56
44. Yearly: \$486.40; Monthly: \$39.95; Interest added upon
graduation \$1818.75; principal: \$9418.75; Monthly payment:
\$106.47; Total Interest Paid: \$5,176.40

Subsidized Monthly payment \$85.91; Interest: \$2,709.20; Save:
\$2,467.20

- 44) Down payment = \$45,960.00; Amount to borrow
= \$183,840.00
- 45) \$444,038.80
- 46) (a) Down payment = \$131,775.00 (b) Principal Financed
= \$244,725.00
- (c) Monthly payment = \$1,710.63 (d) Total interest paid
= \$371,101.80
- 47) Principal: 217,125; Monthly payment = \$1,518.17; total interest
paid = \$329,416.20
- 48) \$4,170.56
- 49) Monthly payment = \$1,638.57; Money saved = \$41,107.80

50) Payment Number	Interest	Payment on Principle	Balance of Loan
1	\$344.17	\$186.24	\$58,813.76
2	\$343.08	\$187.33	\$58,626.43
3	\$341.99	\$188.42	\$58,438.01

QR 101: Unit 4 - Test Review Answers for Statistics

1.a. all subjects under study; representative subgroup or subset of a population

1.b. all college students GPAs

1.c. the group of students GPAs which were actually included in the averages

1.d. random

1.e. systematic

1.f. stratified

1.g. cluster

1.h. adding the values of the data and dividing by the total number of values

1.i. median

1.j. midrange

1.k. mode

2)

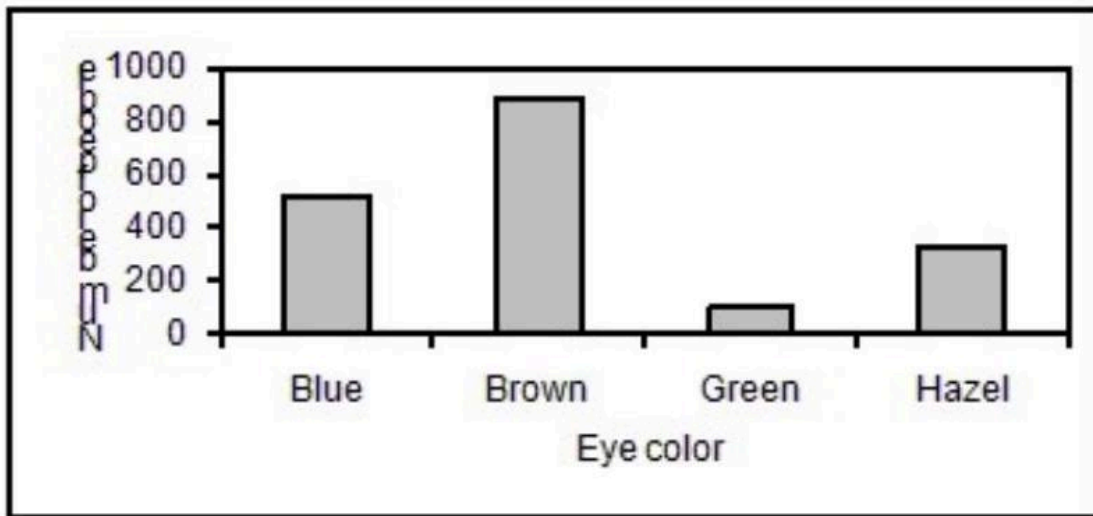
Type	Tally	Frequency
R	$t + t + t + 4. I$	11
S	$t + 4. I$	6
N	$t + 4.$	5
C	$t + 4. III$	8

4. a. None; b. 2; c. 20; d. 59

5.

5	00
6	
7	0156899
8	0779
9	02

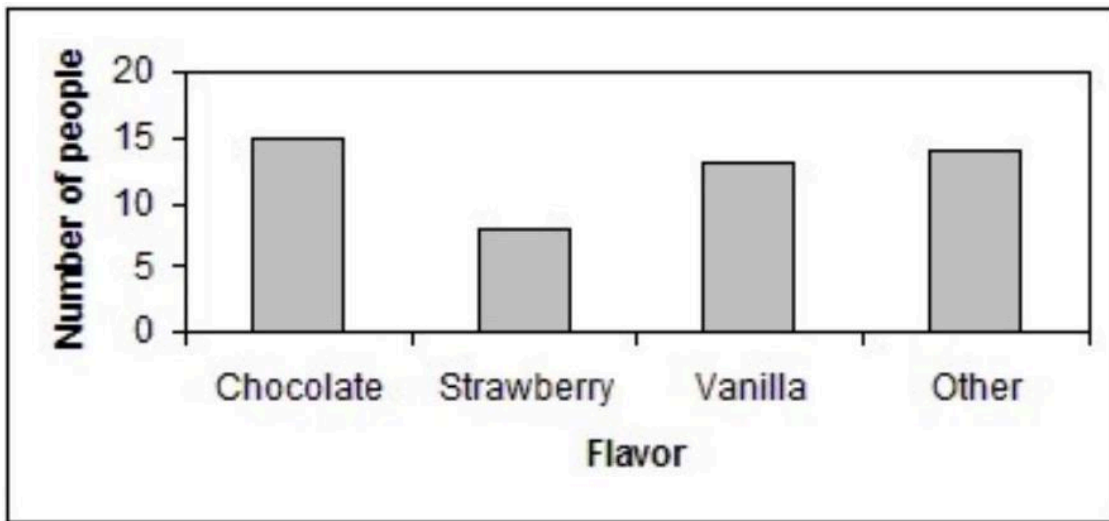
6.



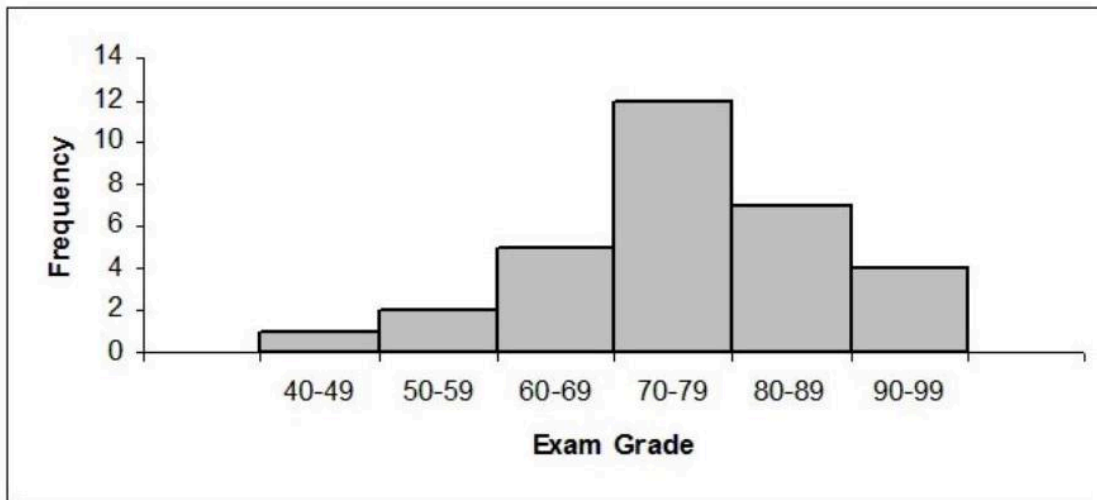
3.

Classes	Freq
15 – 20	8
21 – 26	5
27 – 32	2
33 – 38	1
39 – 44	4

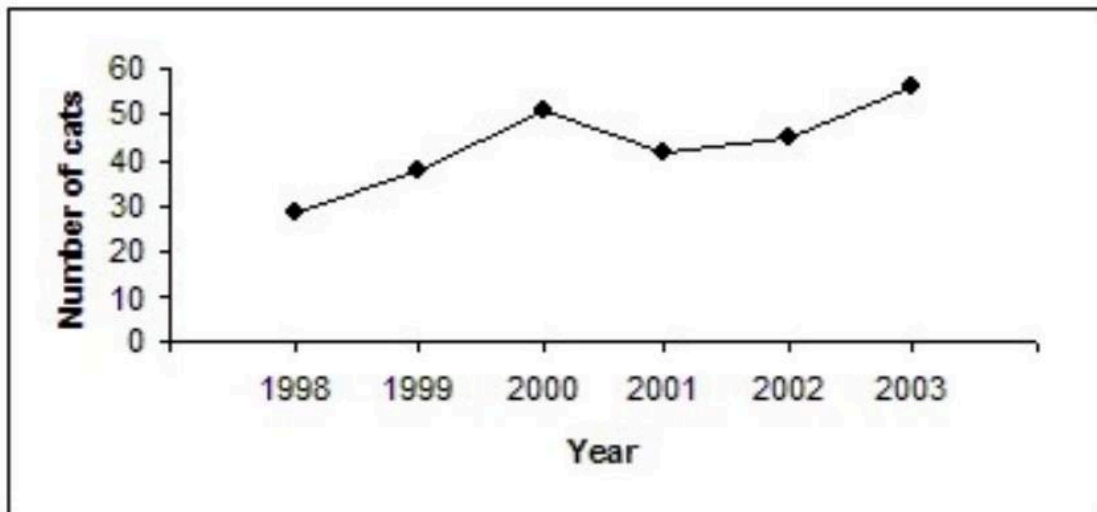
8.



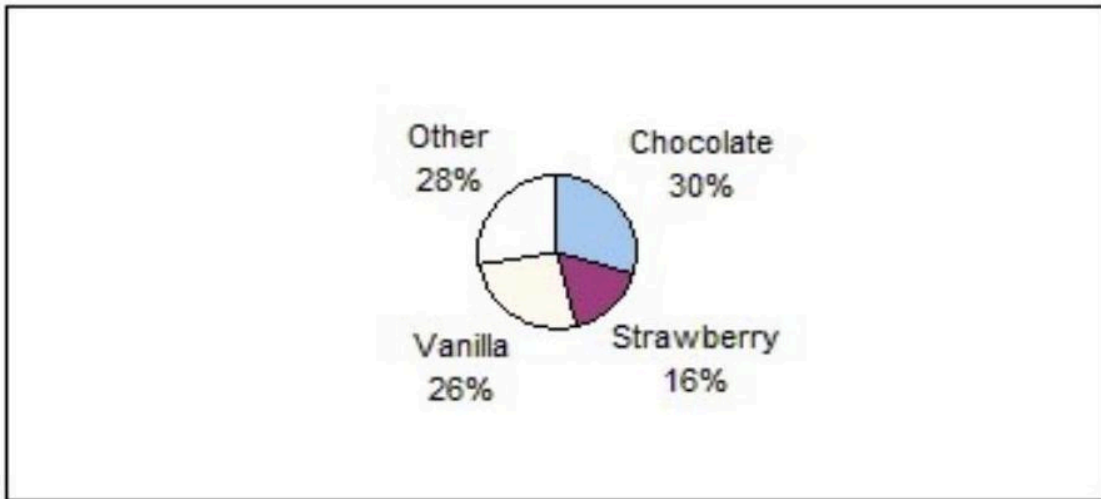
10. Mean: 75.5



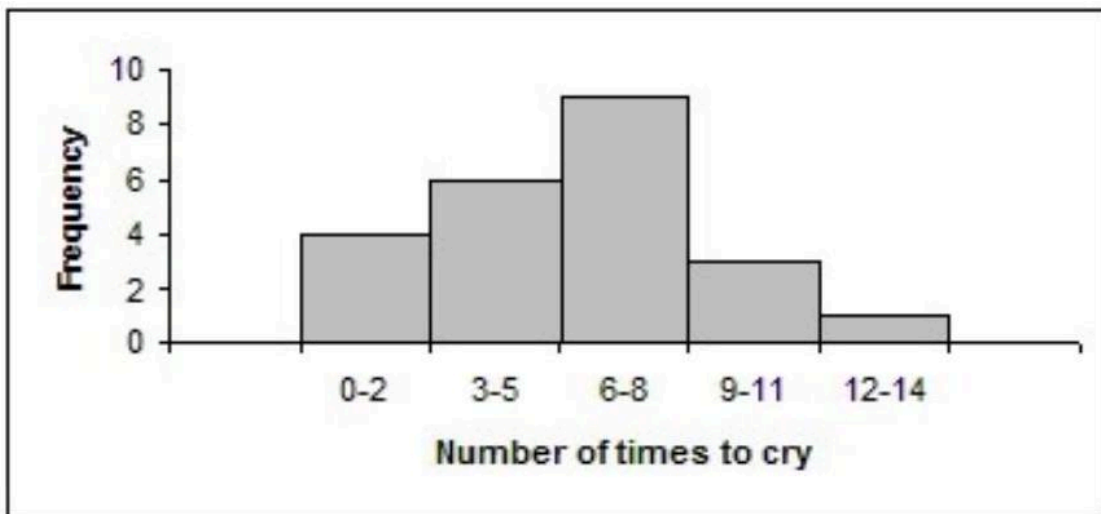
12.



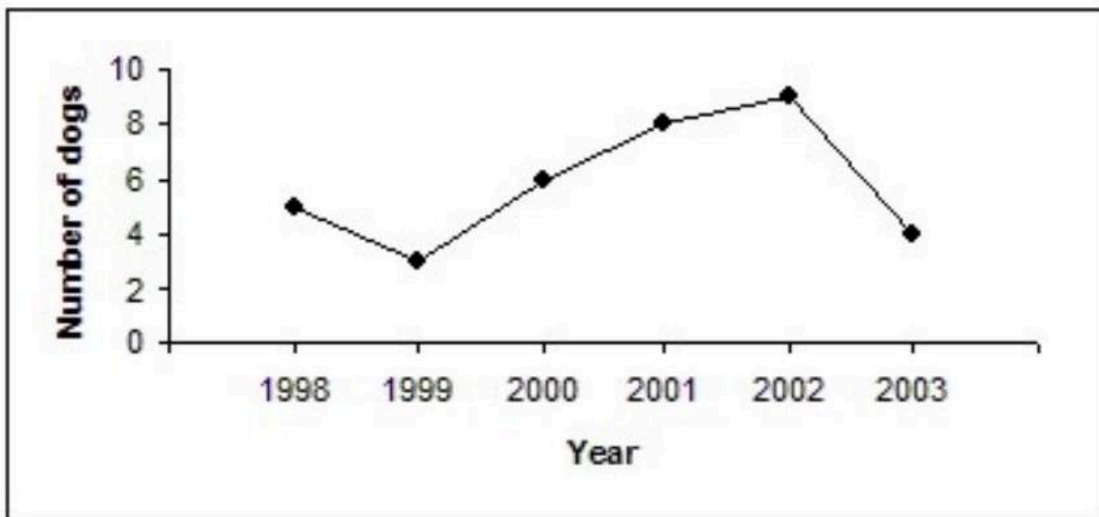
9. Choc 108°; Straw 58°; Van 94°; Other 101°



11. Mean: 5.8



13.



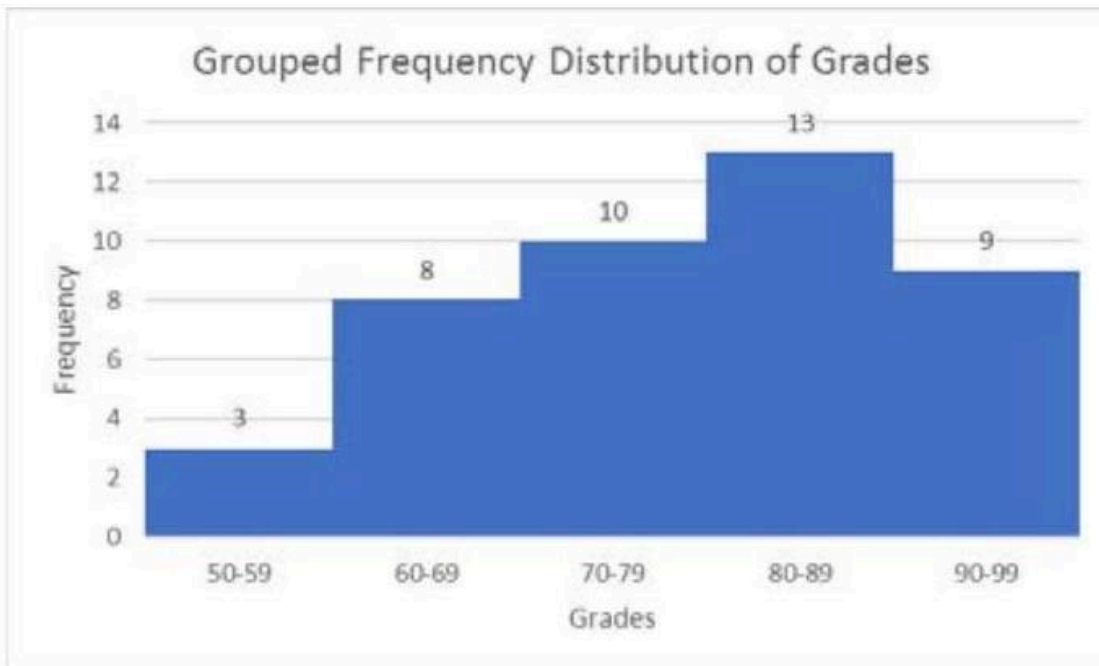
14. mean: 50.5, median: 53, mode: 59, midrange: 48

15. Modes: 83° and 87° ; median: 84.75°

16 a. Mean: 530, median 411 acres which is much smaller than the mean. The mean is much more effected by the one value that is much larger than the others. Skewed right or positively skewed.

b. The new mean is 339.3 acres and the new median is 360 acres. That one large value did in fact skew the mean upward.

17. 78.45



18. True mean of 24.70 , estimated mean of 25.25

19. 86.2 quality points for a grade of B
20. 149 quality points out of 180 possible points which is 82.8% for a grade of B
21. 93rd percentile
22. 260
23. 45
24. 94th percentile football; 97th percentile baseball; therefore, the baseball team was ranked higher
25. $Q_1 = 18.5$, $Q_2 = 20$, and $Q_3 = 23$
26. $\text{Min} = 58$; $Q_1 = 70$, $Q_2(\text{Median}) = 80$, $Q_3 = 88$, $\text{Max} = 116$; $LF = 43$; $UF = 115$; outlier at 116
27. Lowest Score 54

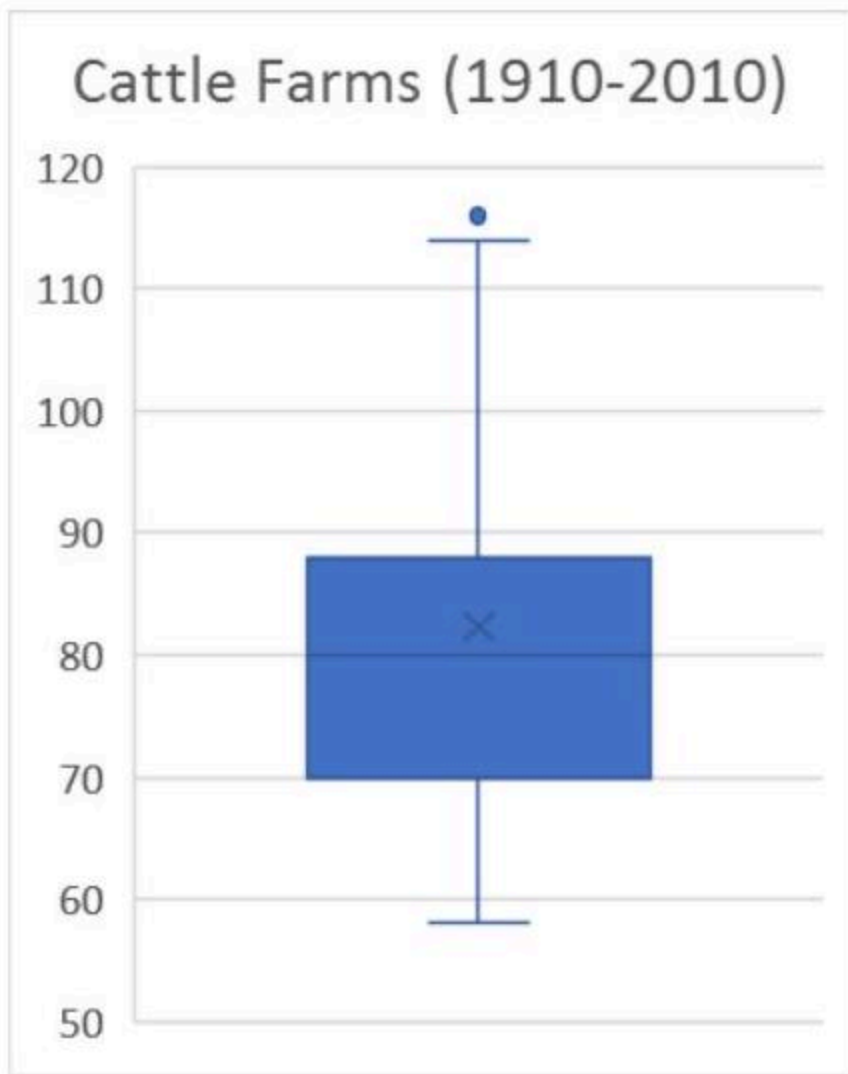
First Quartile 60

Median 70

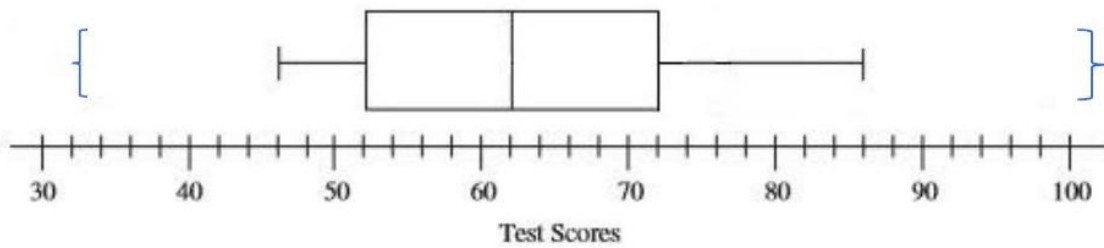
Third Quartile 81

Highest Score 94

Interquartile Range 21

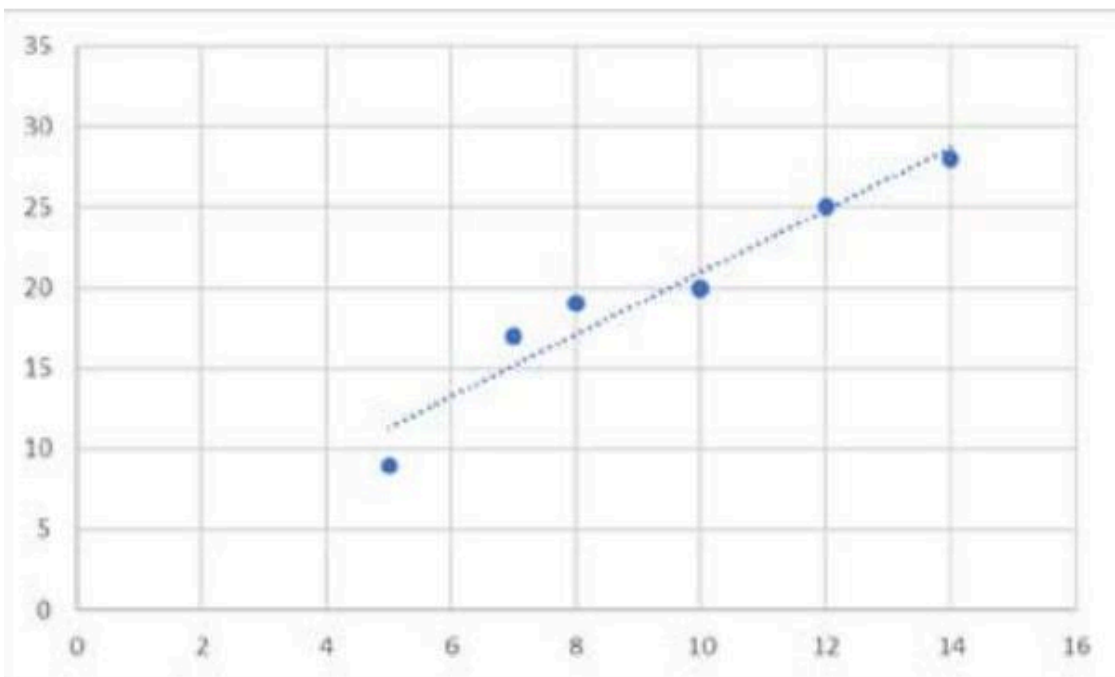


28.

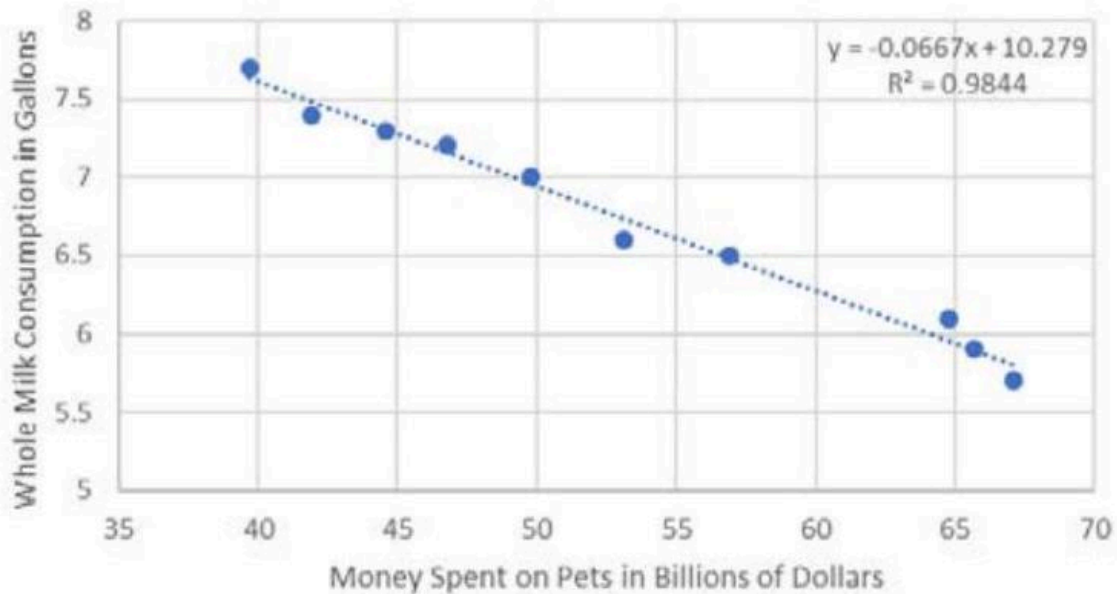


UF = 102; LF = 32

29. A positive linear relationship exists.



US Per Capita Consumption of Whole Milk Compared to Money Spent on Pets



30. Negative linear relationship

31. when we spend \$60 B on pets, we expect to drink 6.277 gallons of milk.

32.

$r = -1$	d
$r = -0.9$	b
$r = -0.5$	f
$r = 0.5$	a
$r = 0.9$	e
$r = 1$	c

33. asking biased questions
34. asking double-barreled questions
35. Using double negatives
36. Increase: $\$32(12) = \384 ; percent increase: 12.9% Which the advocacy group might choose is an opinion.
37. Median 17; Modes 19; Mean 15.35
 - a. Because of the two zeroes, mean is low. That makes it seem like the scores were awful.
 - b. The mode was 19; great job class! Most of the scores were high, but the two zeroes lowered all other measures of average.
38. The second. Due to the scale, you have to look very closely to see any improvement at all.

QR 101: Unit 8 - Answers for Measurements Review

1. dimensional analysis
2. 2.65 mi
3. 4 pounds
4. 12 m
5. 2.02 inches
6. 33 feet
7. 9 gallons
8. 1.81 cu yd
9. 9, 284.54 quarts
10. 2.186 kL, 579.29gal
11. 800 fluid ounces or 23.6 Liters; 3 cases of cans for \$14.97 or 12 2-Liter bottles for \$15.48; cans are cheaper.
12. He will need to purchase 16 jars.

13. 2,041lb
14. 2.5 pounds
15. 7,524 pounds
16. 48.2°F
17. -27.78°C
18. $SA = 314\text{ft}^2$ $V = 360\text{ft}^3$
19. $SA = 282.6$ square inches, $V = 339.12$ cubic inches
20. Volume: 672ft^3 ; Surface area: 488ft^2 ; ratio: 1.38
21. Volume: 21.94in.^3 ; Surface area: 45.62in.^2 ; ratio: 0.48
22. Surface Area: 8168.14ft^2 ; Total of 47 gallons; Nine 5 -gallon buckets and two 1-gallon cans
23. 2.94 kg
24. 11.19 kg
25. 55.12 in.
26. 80.5 km per hour; 73 ft per second
27. 243.04 mi
28. 11 feet/sec ; 7.5 miles/hour; 12.075 km/ hour
29. 4.1 hours
30. shorter than
31. shorter than
32. shorter than
33. greater than
34. greater than
35. greater capacity than
36. greater capacity than
37. 76.7 g
38. 20 ft ; 7 yards; \$55.23.
39. 25 m; \$31.25
40. 57 ft ; 10 sections; \$348.80
41. 32.768 m
42. 12.4 mi
43. 6 bags
44. 1.97 cubic yards; order 2yds^3 for a cost of \$230