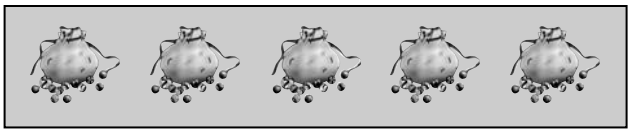
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 1-1



Remember:
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.04 points.

1. Looking at data and then predicting an outcome is known in mathematics as _____.

2. The probability of something happening is sometimes referred to as _____.

3. A(n) _____ chance of rain means that 80 times out of 100 in the past when the weather patterns were the same as today, it rained.
(a) 8% (b) 60% (c) 80% (d) 100%

Determine the solutions to the following probability questions (4-8). A list of data contains the numbers 1, 2, 3, 4, 5, 4, 4, 6. Determine the following:

4. the sample space _____

5. the elements in the event of all the odd numbers _____

6. the elements in the event of all the numbers greater than 5 _____

7. the elements in the event of all the numbers that appear more than once _____

8. the elements in the event of all the numbers between zero and 4 _____

Determine the solutions to the following probability questions (9-13). The temperatures for one week in Death Valley were recorded as follows: 110°, 112°, 113°, 111°, 112°, 112° and 119°.

9. 110° is contained in the sample space. _____ (a) True or (b) False

10. the elements in the event of the temperature that occur the most _____

11. the elements in the event of the temperatures that occur only once _____

12. the elements in the event of the temperatures that occur at least once _____

13. the elements in the event of the temperatures that occur more than once _____

Fill in the blanks.

14. Probability is the likelihood that a certain outcome will occur at the end of an _____.

15. To interpret something is to tell what it _____ (means, does).

16. Other words used to describe probability are chance and _____.

17. _____ represents how many outcomes for every hundred does that particular outcome occur.

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18. The probability formula divides the number of favorable outcomes by the number of elements in the _____ (unfavorable, sample) set.

19. The sample set (space) is the set of all _____ (possible, favorable, unfavorable) outcomes.

20. A ratio of _____ (favorable, unfavorable) outcomes to possible outcomes is set up to determine the probability of the event occurring.

21. If an event has no possibility of occurring the probability is _____.

22. Professor K has 3 quarters and 7 dimes in his pocket. The probability that he pulls a quarter from his pocket is _____.

23. An eight-sided number cube is labeled with numbers 1, 2, 3, 4, 5, 6, 7, 8. Calculate the probability of rolling a 6. _____



24. Look at the spinner above. It has the smallest chance to stop on which color? _____
(a) black (b) light gray (c) medium gray (d) dark gray

25. In #23, what is the probability of rolling a ten? _____

26. When the numerator and denominator of a fraction are the same, the value of the fraction is _____.

27. A probability of one translates into an outcome happening _____% of the time.

Work the following problems, show your work, and write the answers on the blanks.

28. Professor K asked Nikki, one of his students, to pull a marble from a bag containing 15 marbles; 5 red, 5 blue, 5 black. Determine the probability that Nikki will **NOT** pull a black marble from the bag. _____

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29. Professor K gave another student, Dustin, an eight-sided number cube. The cube was numbered with even numbers, 2, 4, 6, 8, 10, 12, 14, and 16. Determine the chance that Dustin will roll a number between and including 10 - 16 (10, 12, 14, 16).

_____

30. Determine the possibility that Dustin will roll an odd number between 2 and 16. _____

31. _____ a picture can help you to understand a problem.

Solve the following problems. Be sure to show all the steps to solving each problem.

32. Find the tenth term in this series of numbers: 1, 3, 5, 7, 9…. _____

33. Determine the formula to find the n^{th} term for the series of numbers: 7, 12, 17, 22, 27....

_____

Fill in the blanks.

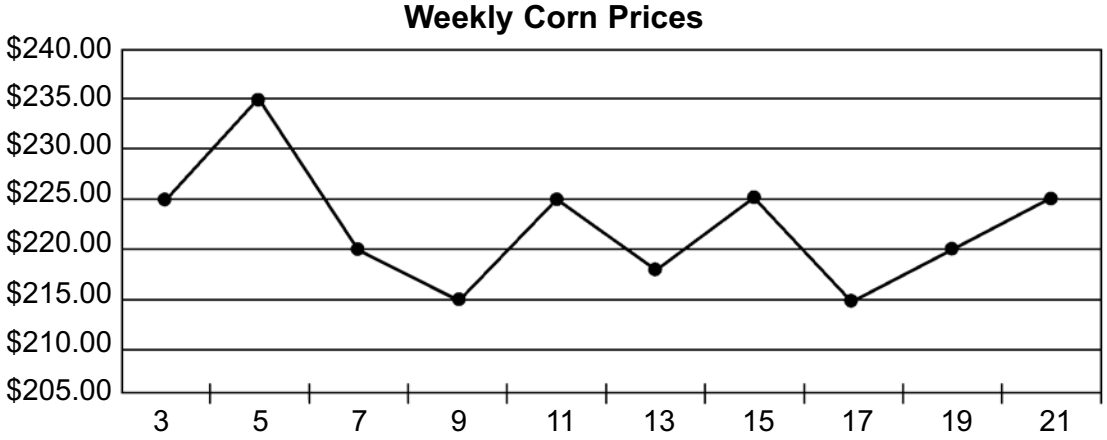
34. Stock price averages are usually shown on _____ graphs.
(a) pie (b) bar (c) line

35. Most businesses and corporations use _____ graphs and pie graphs to show income and expenses as well as profits and losses.

36. Something used in trade is called a _____.

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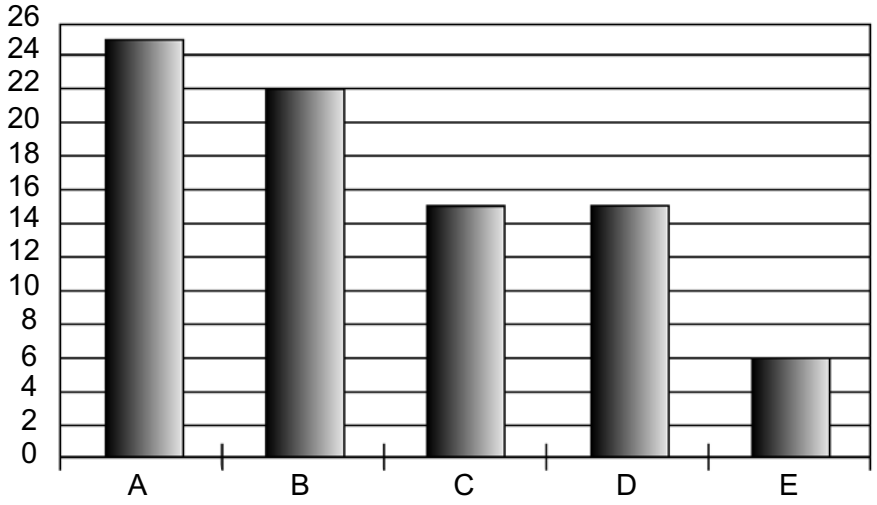
Answer the questions related to (and below) each graph.



37. Choose the week of this 21 week span that ended with a corn price of $240.00. _____
(a) 6 (b) 17 (c) 13 (d) none

38. Choose the week of this 21 week span that ended with a corn price of $218.00. _____
(a) 13 (b) 21 (c) 15 (d) none

39. Choose the best answer for the overall trend of this 21 week span for corn prices. _____
(a) up (b) down (c) no overall trend

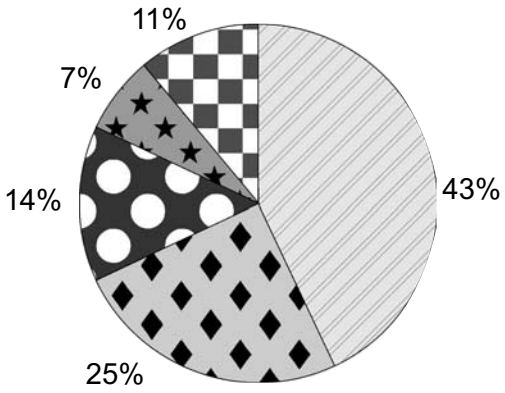


40. Choose the overall trend of the above graph. _____
(a) up (b) down (c) no overall trend

41. Choose best estimate for the value for the letter C. _____
(a) 24 (b) 14 (c) 15 (d) 10 (e) 12

42. Choose the best title for the graph above. _____
(a) Number of Students in a Class (b) Soft Drink Survey Results (c) can't tell

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43. Office supplies is the smallest portion of the company's expenses. What is the amount of money for every $100.00 spent for office supplies? _____

(a) $3.00 (b) $10.00 (c) $7.00 (d) $11.00

44. If natural gas is the third to the largest expense for the company, which pattern represents the expenses for natural gas? _____

(a) checkered (b) diamonds (c) circles (d) stars

Match the following Life Principles.

45. _____ *"A clean heart translates* (a) *of success."*

46. _____ *"Math and life are predictable* (b) *a thousand words."*

47. _____ *"Learning increases the probability* (c) *because of absolutes."*

48. _____ *"Each problem that I solved became a rule* (d) *into a clean life."*

49. _____ *"A picture is worth* (e) *which served afterwards to solve other problems."*

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