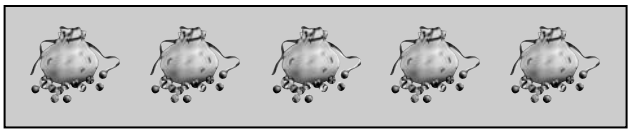
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 1-3



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 2.94 points.

1. A cube has _____ faces.

2. The number of items necessary to cover all the exposed surfaces of an object is called a _____ (set, layer, cover).

3. A paperweight on a desk is in the shape of a triangular prism. The number of exposed surfaces is _____.

4. A bar of gold was sitting in the middle of a shelf at the U.S. Treasury in Fort Knox, Kentucky. How many bars of gold can be stacked around it to cover all the exposed faces of the bar of gold. _____

5. Predictions using a model or _____ (formula, solid) are made from data obtained previously.

6. To make a _____ (guise, conjecture) is to reach a conclusion by guesswork.

7. By making a list of the numbers of items, *n* layers, it is easier to see the _____ that the problem is following in order to obtain the number of items in each layer.

8. When looking at a pattern, the challenge is to put your reasoning into a _____ formula.

9. The letter, _____ (*t, u, v*) is used to represent the value of the term.

10. The letter, _____ (*n, o, p*) is usually the letter that is used to represent the number of the term.

11. Determine a formula for the n^{th} term in the pattern seen in the following list of numbers. _____ (Use $n = 1, 2, 3, 4, \ldots.$) {3, 8, 15, 24, …}

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Use the following information to determine the answers for #12-21. Matthew pulled a green marble from the cup that contained 3 red, 3 green, 3 black, one white and one blue marble. He placed the green marble back in the cup and proceeded to pull a blue marble from the cup. Matthew did not return the blue marble to the cup. Matthew then pulled a black marble from the cup.

12. The probability of pulling a black marble on the third attempt as shown is _____.

13. P(green, blue, black) = _____.

14. Matthew put all the marbles back into the cup. After pulling a white marble from the cup, he does not return it to the cup. Calculate P(white, green, green, white). Choose the best answer. _____

(a) $^1/_{16}$ (b) $^1/_8$ (c) 0 (d) 1

15. Calculate P(white, green, red) if after each attempt Matthew does not return any of the marbles to the cup. Choose the correct answer. _____

(a) $^1/_{110}$ (b) $^1/_{128}$ (c) $^1/_{140}$ (d) 1

16. The probability of Matthew pulling a purple marble from the bag is _____.

17. The chance that something will happen compared to chance that something else will happen is called the _____ (luck, odds, possibility) of something happening.

18. Odds in favor of a thing divides the number of _____ (favorable, unfavorable) outcomes by the number of unfavorable outcomes.

19. Odds against a thing divides the number of unfavorable outcomes by the number of _____ (favorable, unfavorable) outcomes.

20. Calculate the odds of pulling a red marble from the bag after Matthew pulled the first green marble from the bag. _____

21. Calculate the odds of **NOT** drawing a green or black marble from the bag.

_____

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SECTION QUIZ 1-3

Calculate the correct answer for each problem. (22-23)

22. A number cube of eight sides is specially labeled with the numbers 2, 2, 3, 3, 3, 3, 4, 4. Calculate the odds of rolling a 2. _____

23. Using the cube in #22, calculate the odds of **NOT** rolling a 4. _____

Fill in the blanks.

24. Numbers, letters or words with hidden meanings are written in _____ (Egyptian, Babylonian, code).

25. The Hebrews and Greeks used letters to represent _____.

Write the values of the Roman numerals below.

26. VI = _____

27. IX = _____

28. DCCC = _____

29. DCCCLXXXVIII = _____

Match the following Life Principles.

30. _____ *"We sometimes have trials in life*

31. _____ *"All of a man's deeds, good or bad,*

32. _____ *"Proper preparation*

33. _____ *"The things of this world cannot be made known*

34. _____ *"A proper attitude will*

(a) *multiplies your chances of success."*

(b) *increase the odds of happiness."*

(c) *will come to light."*

(d) *because we fail to learn from the errors of the past."*

(e) *without a knowledge of mathematics."*

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