

**An Exercise in "Logical" Thinking 2**

Write your name(s): \_\_\_\_\_

Answer the following the *best* you can. No help will be given! (1 point each)

- 1) You are stranded in a snowstorm and you come across a deserted, pitch black cabin. You walk into the cabin with only one match in your hand. Inside there are three objects: a kettle, a kerosene lantern, and a candle. Which object do you light first? 1) \_\_\_\_\_
- 2) If it takes 21 days for 21 chickens to lay 21 eggs, how many days will it take 14 chickens to lay 14 eggs? 2) \_\_\_\_\_
- 3) A squirrel has 6 ears of corn hidden in a building. It wants to move the ears to its hole in a tree. If only 3 ears can come out of the building at a time how many round trips will it take the squirrel to move the corn? 3) \_\_\_\_\_
- 4) There are two baby chicks just hatched standing next to a rooster. One chick is solid yellow and the other one is yellow with spots of red. Which chick came from the egg the rooster laid if the rooster is solid red in color? 4) \_\_\_\_\_
- 5) Train #1 leaves Chicago towards New York at the same time train #2 on a parallel track leaves New York for Chicago. The train leaving Chicago is traveling twice as fast as the other train. When they meet which train will be closest to Chicago? 5) \_\_\_\_\_
- 6) England celebrates Christmas on Dec. 23. They celebrate New Years on Jan. 1. Does England have a fourth of July? (yes or no) 6) \_\_\_\_\_
- 7) A solid wall of a building made entirely of all bricks, with no windows and no doors, is to be constructed. How many bricks does it take to complete the wall if the wall is 20 feet by 40 feet and each brick face (front side) is 2 inches by 6 inches. (Note: Bricks are to be laid horizontally.) 7) \_\_\_\_\_
- 8) How many sides does a circle have? (Note: None and infinite are wrong answers.) 8) \_\_\_\_\_
- 9) Is an old hundred dollar bill better than a new one? a) yes or no b) explain your answer 9a) \_\_\_\_\_  
9b) \_\_\_\_\_
- 10) A bean stalk doubled its height every day. This was a magical bean stalk that grew from the magical beans that Jack planted, which he got from selling his mother's cow. The bean stalk reached its full height in 100 days. How many days did it take to reach half its height? 10) \_\_\_\_\_
- 11) Why can a person living in Wheaton or Warrenville not be buried west of the Mississippi River?  
11) \_\_\_\_\_

---

- 12) If a farmer has 5 haystacks in one field and 4 haystacks in the other field, how many haystacks would he have if he combined them all in the center field? 12) \_\_\_\_\_
- 13) How many more seconds are in a month of 30 days as 31 days? 13) \_\_\_\_\_
- 14) In what year did Christmas Day and New Year's Day fall in the same year? 14) \_\_\_\_\_
- 15) A family, whose last name is Greek, has five sons named Alpha, Beta, Delta, Gamma, and Epsilon. Each of these boys has one sister. How many children are there in the Greek family? 15) \_\_\_\_\_

**An Exercise in "Logical" Thinking 2 continued**

16) In 1980 a man married his widow's sister who had \$1,000,000 in the bank. In 1990 they got a divorce and as part of the settlement the man got \$500,000 (there was no prenuptial paper). Is this a fair amount of money for the man to receive? Explain your answer.

16) \_\_\_\_\_

17) I am going to put pennies, one at a time, into an empty box. The base of the box is 3 inches square with a height of 2 inches. A penny has a diameter of 0.75 inches and 18 pennies stack to be 1 inch in height. How many pennies, in neat stacks, can I put in the empty box? 17) \_\_\_\_\_

18) There is three errors in this sentence. What are they? 18a) \_\_\_\_\_  
b) \_\_\_\_\_  
c) \_\_\_\_\_

19) Chris a butcher has a twin brother who is exactly the same height. They are both 5'10" and the brother weighs 180 pound. What does Chris weigh? 19) \_\_\_\_\_

20) If 100 comes after 10, and 1000 comes after 100, and 10000 comes after 1000 then what comes after 10000? 20) \_\_\_\_\_

21) Four penguins would satisfy a polar bear's appetite for 12 hours. A polar bear has a territory of 10 square miles. There are 1000 penguins per square mile. What percent of penguins (number eaten divided 1000 times 100) in the 10 square miles will a wild polar bear eat? 21) \_\_\_\_\_

22) There are many words in mathematics that are hard to pronounce correctly such as: abscissa, asymptote, logarithm, rhombus, and polynomial. From the words in this problem, there is one word which is most often pronounced incorrectly. What is it? 22) \_\_\_\_\_

23) What relationship to the father is a father's only son's brother's uncle's wife's daughter's brother's father's son? 23) \_\_\_\_\_  
a) the father's nephew                      e) the father himself  
b) the father's grandfather                f) the father's son  
c) the father's father                        g) the father's grandson  
d) the father's uncle                        h) the father's cousin

24) In a pasture is a papa bull and its related baby bull. One of the members of the family is missing? Who is it? 24) \_\_\_\_\_

25) Mary's mother has a tendency to name her four children after U.S. coins. Her first child was named Quartaro (for quarters), the second child was Dimetrius (for dimes), the third was Nicole (for nickels), and the last child was named what? 25) \_\_\_\_\_