Name: _____

(This shows my own thinking.)

★★★ 1. The faces on a regular die are numbered 1 through 6. What is the probability of rolling three four's in succession? Give your answer as a common fraction.

Answer: _____

★★ 2. Two girls each had a different number of bracelets. Joyce said, " If you give me 8, I'll have as many as you." Leslie replied, " If you give me 8, I'll have twice as many as you." How many did each have?

Answer: Joyce has_____ bracelets.

Leslie has_____ bracelets.

★★ 3. How many different 3-digit numbers can you write using the numbers shown below only one time?

2 4 7 9

Answer: _____ numbers

★★★ 4. Karch gave $\frac{1}{2}$ of his stamp collection to AJ. Then he gave $\frac{3}{4}$ of the remaining stamps to Ricci. If he ended up with 12 stamps, how many did he have when he started?

Answer: _____ stamps

★★★★ 5. The Hi-N-Dry Volleyball Company has exclusive rights to make a waterproof volleyball for games at the beach. The company controls the shipment of its balls with a special code. Last week's shipment consisted of 20 cartons -- the first five cartons are numbered in this way: 04343, 08686, 13029, 17372, and 21715. The last 2 cartons shipped were 82517 and 86860. The company is in a panic because every carton that began and ended with an even digit has been lost. How many cartons have been lost and what are the carton numbers?

Answer: a. _____ cartons were lost.
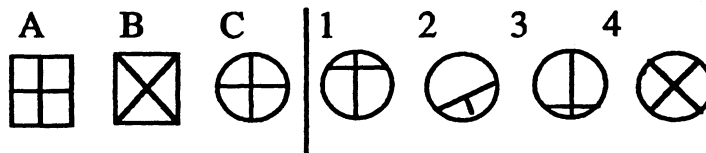
b. The lost numbers were: _____

★ 6. You have yarn that is 8 yards long. If it takes you 1 second to make each cut, how long will it take you to cut the yarn into 1 foot pieces ?

Answer : _____ seconds

★ 7. The results from a recent survey show that the the most popular magazines among men are *Sports Illustrated, GQ,* and *Consumer Reports.* Of the men surveyed, 13 subscribe to *GQ* only, 28 to *Sports Illustrated* only, and 19 to *Consumer Reports* only. The survey shows that, of the men who take two magazines only, 17 take both *GQ* and *Sports Illustrated,* 21 take both *Sports Illustrated* and *Consumer Reports,* and 13 take both *GQ* and *Consumer Reports.* Fourteen men subscribe to all 3 magazines. How many men were surveyed?

Answer: _____men

★ 8. Figure A changes to B as C changes to:

A   B   C |1   2   3   4

Answer: _____

★★ 9. Mentally find the product of 2 x 48 x 50. When you turn in your paper, you will have a problem like this to do in your head.

Answer to later problem: _____

★★★ 10. Find the area of a soccer field outside the center circle if the field is 100 m by 50 m and the diameter of the center circle is 15 m.

Answer: _____ m^2

★★ 11. Write an equation for this situation, using h for the cost of 1 hot dog. Solve the equation.

An 8-pack of hot dogs and a jar of mayonnaise costs $2.42. The mayonnaise is $1.30. What is the cost of each hot dog?

Answer: An equation is: _____. The solution is: $h =$ _____