Name:	Hour:	Date:
A B C D 1 0000 2 0000 3 0000	Pop Quiz!	Quiz Para for you
4 0000		
5 0000		POP Quiz

It's time for a pop quiz! We hope you are ready. The quiz consists of 5 multiple-choice questions. Each question has four answer choices, labeled A through D. Now for the bad news: you will not get to see the questions. You just have to guess the answer for each one.

- 1. Bubble in an answer for each question for the pop quiz. Number correct = _____
- 2. Let X = number of correct guesses. Is this a binomial setting? Explain.
- 3. Calculate the probability of getting exactly 2 correct. Show your work.
- 4. Fill in the table below showing the probability of getting exactly *X* correct.

# correct (X)	0	1	2	3	4	5
Probability						

- 5. Find and interpret the mean of the distribution. Show your work.
- 6. Find and interpret the standard deviation of the distribution.
- 7. What is the probability of getting at most 3 correct?
- 8. What is the probability of getting 3 or more correct?



Na	me: Hour: Date:				
	Describing Binomial Distributions				
Ir	mportant ideas:				
	Check Your Understanding				
be stu bo stu an	e you more likely to win a random drawing if you crinkle the paper that contains your name fore putting it into the drawing box? A curious student conducted a study to investigate. The udent took 100 equal sized slips of paper and crinkled 25 of them before putting them all into a x. After mixing well, they asked an uninformed person to select a winner at random. The udent noted if the slip was crinkled. The slip was returned to the box, mixed well, and asked other uninformed person to select a winner at random. This process was repeated 10 times. It Y = the number of times that a crinkled paper was selected.				
a.	Does this setting represent a binomial distribution? Explain.				
b.	Use technology to make a histogram of the probability distribution of Y. Describe its shape.				
C.	Calculate and interpret the mean of Y.				
d.	Calculate and interpret the standard deviation of Y.				

