Name	
Date_	

Advanced Algebra

Unit 7 Probability- Assignment #2

- 1) You spin a die and a coin. Make a list of the outcomes
- 2) You spin 2 dice. Make a list of the outcomes

3) Suppose you are playing a board game for which you need to roll a 6 on a dies before you can start

playing the game....

a) Do this experiment 20 times on your calculator. Math PRB #5 (1,6)

Roll Number	Outcome	Can you start yes/no
1	6	yes
2	4	γνο
3	3	No
4	3	No
5	5	V0
6	6	YED
7	2	. 40
8	5	64
9	3	NO
10	3	NO
11	12	NO
12	1	Po
13	3	C4
14	4	NO
15		No
16	4	No
17	- 1	Νυ
18	Ч	NO ,
19	0	NO PXPIC'M
20	1	NO LAPUNT

Check with 3 other people and see how many times they were able to start the game
Write them down here
b) If you rolled the die 20 times show how you would find the expected value for the number of times you might get a 6. () How does this match your experiment? (d) Show how the theoretical probability and the experimental probability relate by using your
experiment and dividing by the number of trials and what you know the theoretical probability is of a die.
I can find probabilities:
4) Each day in class your teacher randomly calls on 5 students in your class of 30 students. What is the probability you will be called on today? $\frac{5}{30} = 600 \text{ J}$
b) If 2.5% of items produced are defective, then what is the probability that a randomly selected item will not be defective? 1 - 2.5 1 - 0.25 = 9.75 c) What is the probability that the sum of two tossed dice will not be a 6? 30 - 5
36 - (-28)