

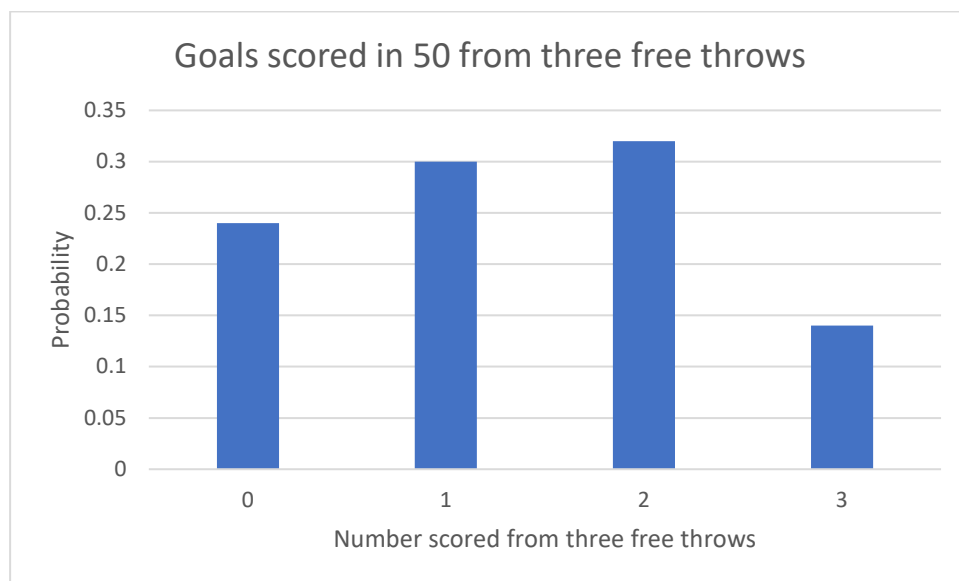
I wonder how the chances of each of the possible number of goals (0,1,2,3) compare. To do this I will complete 50 sets of 3 throws and record the shots that go through the hoop. I will make sure that each time I throw the basketball from the free throw line that after I have picked up the ball either from the ball going through the hoop and net or rebounding off the back board that I reset myself by standing in the free throw line and bouncing the ball the few times which takes approximately 20 seconds like I do in my games. Once I have completed each set of three throws I will then give myself a minute before I start again to ensure that each set is consistent. I think that the chance of getting two should be highest and then one followed by three and then none at all. I should keep conditions the same by taking a break between each set of throws.

1

2

Number of goals	total	Probability
0	12	0.24
1	15	0.30
2	16	0.32
3	7	0.14

3



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I scored a total of 68 goals in 50 trials. So my average was 1.36 goals for any set of 3 free throws. My probabilities show that the chance of getting one goal (0.3) and two goals (0.32) are near enough to the same. I was surprised that the chance of getting no goals was (0.24). The probability of three (0.14) is less than zero (0.24) and I did not expect this. Also I thought I would get more two's (0.32) than one's (0.30) as when I practice my free throwing I always take two free throws. The order is more like both 1 and 2 the same, then zero and finally three.

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