

1. Question 1

- (a) When rolling the Zocchihedron the first time, you are guaranteed to get a number. The probability of rolling the same number in any of the next four rolls is $\frac{1}{100}$. The sum of these probabilities is $\frac{4}{100} = \frac{1}{25} = 0.04$
- (b) A fair die will have exactly $\frac{1}{100}$ chance of rolling a given number. Using the same logic as in part (a), we must solve for the number of rolls, rather than the probability.
- $$\frac{n}{100} = 0.3$$
- $n = 30$ rolls

Alexander Garcia

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2. Question 2

(a)

(b)

Alexander Garcia

21 April 2017

3. Question 3

(a)

(b)

(c)

Alexander Garcia

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4. Question 4

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5. Question 5

Alexander Garcia

21 April 2017

6. Question 6

(a)

(b)