Exercizi DAQ

Tuesday 1 September 2020 09:00

Exercise 1

1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain two equal numbers or two different numbers when rolling two dice
4. Calculate the probability of obtaining at least one six when rolling four dice
5. Calculate the probability of obtaining at least one double six when rolling 24 times a pair of dice
6. Calculate the probability of obtaining at least one double six when rolling 25 times a pair of dice
7. Calculate the probability of obtaining at least one double six when rolling 36 times a pair of dice
8. Calculate the probability of obtaining at least one double six when rolling 37 times a pair of dice

Calculate the probability of obtaining at least one double six when rolling n times a pair of dice

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.5 of obtaining at least one double six

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.9 of obtaining at least one double six

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.99 of obtaining at least one double six

Exercise 2

1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
4. Calculate the probability of obtaining at least one six when rolling four dice
5. Calculate the probability of obtaining at least one double six when rolling 24 times a pair of dice
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1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
4. Calculate the probability of obtaining at least one six when rolling four dice
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1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
4. Calculate the probability of obtaining at least one six when rolling four dice
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1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
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1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
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1. Calculate the probability of a given event using the classical definition
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1. Calculate the probability of a given event using the classical definition
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3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
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1. Calculate the probability of a given event using the classical definition
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3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
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Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.99 of obtaining at least one double six

Exercise 30

1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
4. Calculate the probability of obtaining at least one six when rolling four dice
5. Calculate the probability of obtaining at least one double six when rolling 24 times a pair of dice
6. Calculate the probability of obtaining at least one double six when rolling 25 times a pair of dice
7. Calculate the probability of obtaining at least one double six when rolling 36 times a pair of dice
8. Calculate the probability of obtaining at least one double six when rolling 37 times a pair of dice

Calculate the probability of obtaining at least one double six when rolling n times a pair of dice

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.5 of obtaining at least one double six

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.9 of obtaining at least one double six

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.99 of obtaining at least one double six

Exercise 31

1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
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Calculate the probability of obtaining at least one double six when rolling n times a pair of dice

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Exercise 32

1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
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Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.99 of obtaining at least one double six

Exercise 33

1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
4. Calculate the probability of obtaining at least one six when rolling four dice
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Calculate the probability of obtaining at least one double six when rolling n times a pair of dice

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Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.99 of obtaining at least one double six

Exercise 34

1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
4. Calculate the probability of obtaining at least one six when rolling four dice
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7. Calculate the probability of obtaining at least one double six when rolling 36 times a pair of dice
8. Calculate the probability of obtaining at least one double six when rolling 37 times a pair of dice

Calculate the probability of obtaining at least one double six when rolling n times a pair of dice

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.5 of obtaining at least one double six

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.9 of obtaining at least one double six

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.99 of obtaining at least one double six

Exercise 35

1. Calculate the probability of a given event using the classical definition
2. Calculate the probability of a given event using the frequentist approach
3. Determine if it is more likely to obtain a sum of 9 or a sum of 10 when rolling three dice
4. Calculate the probability of obtaining at least one six when rolling four dice
5. Calculate the probability of obtaining at least one double six when rolling 24 times a pair of dice
6. Calculate the probability of obtaining at least one double six when rolling 25 times a pair of dice
7. Calculate the probability of obtaining at least one double six when rolling 36 times a pair of dice
8. Calculate the probability of obtaining at least one double six when rolling 37 times a pair of dice

Calculate the probability of obtaining at least one double six when rolling n times a pair of dice

Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.5 of obtaining at least one double six

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Find the smallest number of times that one must roll a pair of dice to have a probability greater than 0.99 of obtaining at least one double six