Probability

Simple Probability?

• How do you calculate simple probability?

Number of Correct Outcomes

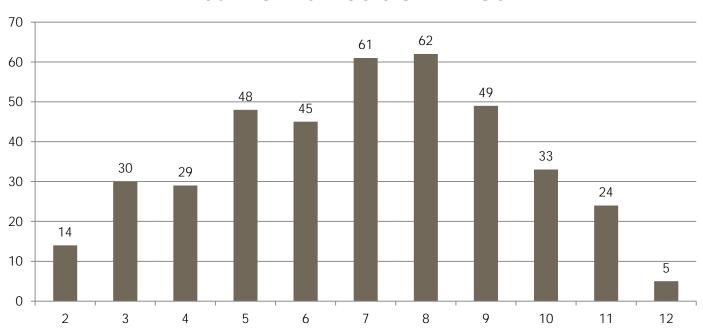
Number of Possible Outcomes

- How many possible numbers are there on 1 dice?
- What are the chances that a 2 will come out?
- How many possible numbers are there on 2 dice?
- What are the chances that the sum will be 5?

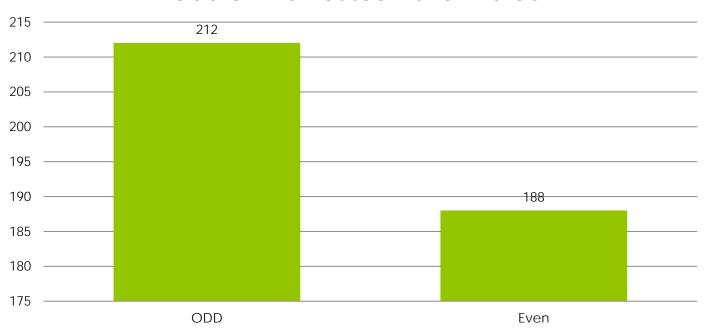
- Calculate the expected Probability for each of the values:
 - The sum of the 2 dice (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)
 - The sum is ODD or Even

• Is the data consistent with these?

Sum of Numbers on 2 Dice



Odd or Even outcome for 2 dice

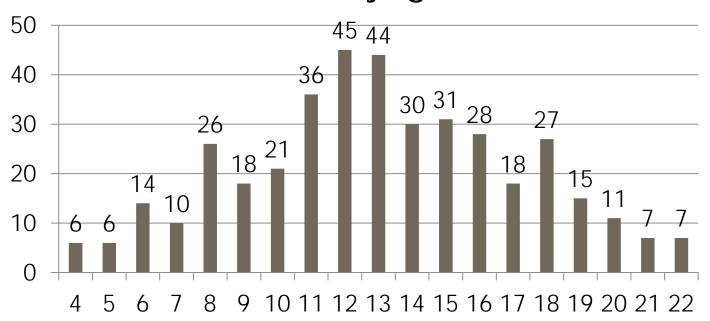


- How many possible numbers are there on 1 card?
- What are the chances that a 2 will come out?
- How many possible numbers are there on 2 cards?
- What are the chances that the sum will be 5?

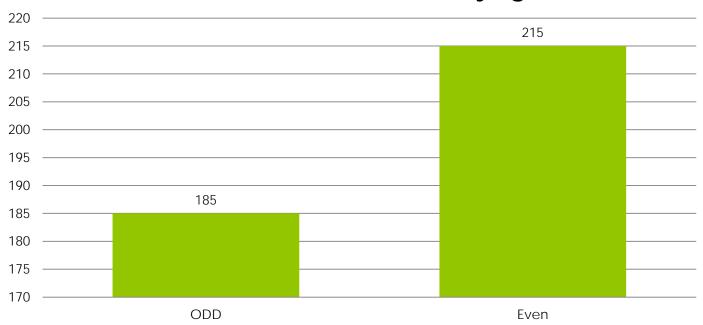
- Calculate the expected Probability for each of the values:
 - The sum of the 2 cards (4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
 - The sum is ODD or Even

• Is the data consistent with these?

Sum of 2 Playing Cards



ODD or Even outcomes for 2 Playing Cards



Assignment

- Come up with another example of simple probability (you must use at least 2 items)
- Determine the possible outcomes
- Determine the probability of these outcomes
- Test these outcomes (at least 100 turns)
- Show your findings and how they compare to your probabilities.
- Due next class (at the end of class)