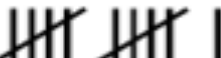1. Calculate the theoretical probability of rolling a 3 on a 6-sided die.

2. Given the data below, what is the probability that a person would draw a diamond card.

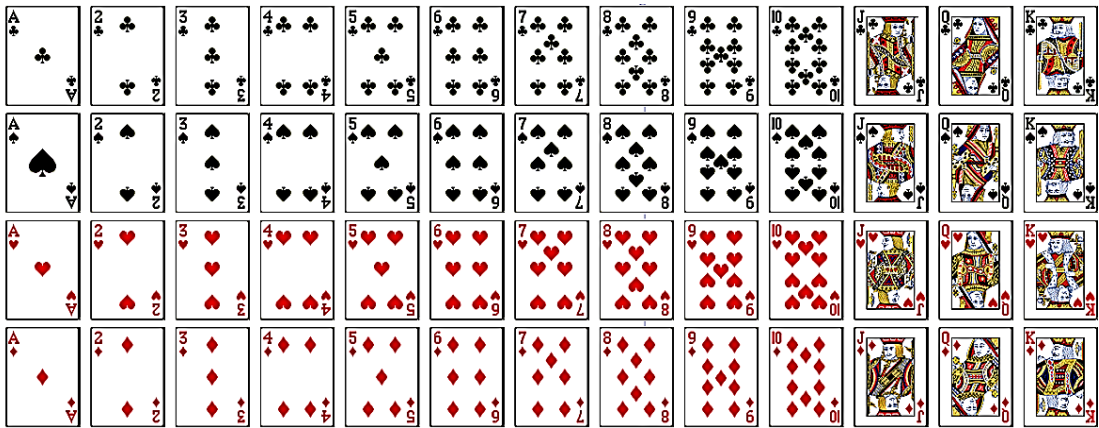| Diamonds	ЖЖ ||
Hearts	ЖЖ ||||
Spades	ЖЖ ЖЖ	
Clubs	|||

3. Calculate the probability that a randomly chosen student from the class has a sister.

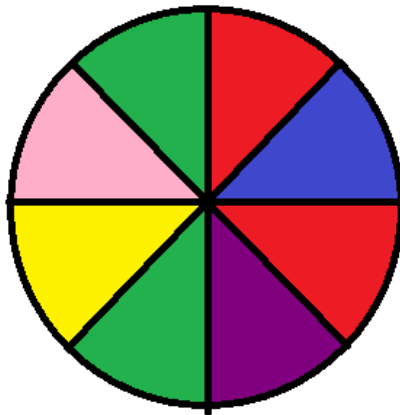|	Has a brother	Does not have a brother
Has a sister	5	12
Does not have a sister	2	7

4. Calculate the probability that a randomly chosen student from the class did not pass the test.

	Passed the Test	Failed the Test
Completed the homework	5	8
Did not complete the homework	3	12

5. Calculate the probability of selecting a Queen or Ace from a standard deck of cards.

6. Calculate the probability of landing on red or pink.

7. Calculate the probability of landing on an odd number or a multiple of 5.

8. In a certain Geometry class of 32 students, 12 of the students play basketball and 17 play soccer. There are 6 students who play neither. What is the probability that a randomly chosen student plays basketball ONLY? (Hint: Draw a chart and/or use a Venn Diagram).

9. Use the data below to calculate the probability that a randomly chosen student was male given his favorite color is yellow.

	Male	Female
Red	7	5
Purple	5	6
Yellow	9	4

10. Use the data below to calculate the probability that a randomly chosen student eats breakfast given they are female.

	Male	Female
Eat Breakfast	12	19
Do NOT eat Breakfast	17	3