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

because there's only one 3 on the six sides. 1, 2, 3, 4, 5, 6

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

Diamonds		7	
Hearts		9	
Spades		11	
Clubs	111	3	7
	TOTAL :	30	30

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
17		
$[\top$		

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	
TOTAL :	8	20	= 28

 $\frac{1}{28}$ =

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).

Geometry	Basketball	No Basketball	Total
Soccer	3	14	
No Soccer		9	5
Total	12	20	32

Basketball, no soccere = 9 studients

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

				_
		Male	Female	TOTAL
	Red	7	5	12
	Purple	5	6	$\chi \chi$
	Yellow	9	4	13
condition! Favorite color is yellow. 13ppl!				
9 because we want just 13 mares!				

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
TOTALS	29	22

Condition! Funale. There are 22 total females. From those we want the over who eat breakfast.