

Quiz: Conditional Probability

1. What is the probability that a randomly selected number between 1 and 26 is divisible by 2 or 3?
2. Two cards are chosen at random from a deck. What is the probability of getting a diamond and a five without replacement?
3. A bottle contains 10 marbles: 5 are white, 3 are red and 2 are blue. What is the probability for picking a white or red marble?
4. 3 coins are tossed and a six-sided dice is rolled. What is probability of getting 3 tails and multiple of 3 on a die?
5. If two dices are rolled, the first die shows a six. What is the probability that other die show three?

A survey of student's boys and girls asked: What is your favorite sport? The results are summarized below:

Sport	Basketball	Cricket	Tennis	Badminton	Hockey	Total
Girls	53	38	42	37	27	197
Boys	57	52	58	23	43	233
Total	110	90	100	60	70	430

6. What is the probability of selecting a student whose favorite sport is tennis?
7. What is the probability of selecting a girl student?
8. If the student selected is a boy student, what is the probability that the student prefers basketball?
9. If the student selected prefers badminton, what is the probability that the student is a male?
10. If the student selected is a girl student, what is the probability that the student prefers hockey or cricket?

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%