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Answer The Following

- 1) Two dice are rolled. What is the probability that the two numbers add up to a prime number?
- 2) Steven tosses a die and tosses a coin. What is the probability that the he gets a 6 on the die and a Tail 1 on the coin toss?
- 3) Brian is getting dressed to go to his office. He has 4 pair of blue socks and 12 pairs of grey socks. Without looking he reaches into the cupboard and picks a blue sock. What is the probability that the next sock he pulls out will be of the same color?
- 4) Paul draws one card from a shuffled deck of 52 cards. What is the probability that he draw a heart or a 7?
- 5) Garcia throws a die. What is the probability that she gets a seven number?

Choose correct answer(s) from given choice

- 6) Kenneth is participating in a race. The probability that he will come first in the race is 0.1. The probability that he will come second in the race is 0.15. The probability that he will come in 3rd is 0.6, and the probability that he will be 4th is 0.15. What is the probability that he will win 2nd position or better in the race?

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|--------|---------|
| a. 0.2 | b. 0.25 |
| c. 0.3 | d. 0.35 |
- 7) From a deck of cards, Helen took out one card at random. What is the probability that she got a prime number?

| | |
|-------------------|-------------------|
| a. $\frac{1}{13}$ | b. $\frac{4}{13}$ |
| c. $\frac{2}{13}$ | d. $\frac{6}{13}$ |
- 8) John and Peter each have a bag that contains one ball each of the colors yellow, black, red, orange, green, pink, and white. John randomly selects a ball from his bag and puts it in Peter's bag. Then Peter randomly selects a ball from his bag and puts it in John's bag. What is the probability that after this the contents of the bag are the same as before?

| | |
|----|------------------|
| a. | b. $\frac{1}{4}$ |
|----|------------------|
- 9) Karen was getting late for his match. While running out the door, she picks up a ball from the ball basket which had the following fruits. What is the probability that Karen did not pick