Activity 4

Unit 3: Probability

Leave your final answer in decimal form (2 decimal places) . Send the photos of your solutions to my personal line.

1. Given: A and B be any event s and $P(A \cap B) = 0.1,\ P(A \cap B') = 0.2,\ P(A' \cap B) = 0.3$

What is the value of $P(A \cup B)$?

2. Given A and B be any events, and $P((A \cup B)') = 0.43$, $P(A - B) = 0.33$ and $P(B - A) = 0.12$. What is the value of $P((A \cap B)')$?

3. The probability of the event of choosing 3 women to join seminar from a group of people consisting of both of women and men is $\dfrac{1}{21}$. If there are 4 women in this group, how many men will there be in this group?

4. Given a box containing tickets numbered -9, -7, -5, -3, -1, 0, 1, 3, 5, 7, and 9, each with one number on it. Picking three tickets at random, one at a time, without returning until the next pick. What is the probability that the numbers on all three tickets picked are **not negative**?

5. Four shirts are randomly picked at once from a laundry basket that contains 7 red shirts, 3 blue shirts, 9 white shirts and 5 black shirts. What is the probability of picking at least 2 white shirts?