

AP Statistics Chapter 14 - 15 Review

ANSWERS ONLY (for explanations, please come in for tutorials)

- "A" and "B" are independent: $P(A \cap B) = 0.18$, $P(A \cup B) = 0.72$, $P(A|B) = 0.6$
"A" and "B" are disjoint: $P(A \cap B) = 0$, $P(A \cup B) = 0.9$, $P(A|B) = 0$
"A" and "B" are dependent: $P(A \cap B)$, $P(A \cup B)$, and $P(A|B)$ cannot be determined.
- "A" and "B" are independent: $P(A \cap B) = 0.2065$, $P(A \cup B) = 0.7335$, $P(A|B) = 0.35$
"A" and "B" are disjoint: $P(A \cap B) = 0$, $P(A \cup B) = 0.94$, $P(A|B) = 0$
"A" and "B" are dependent: $P(A \cap B)$, $P(A \cup B)$, and $P(A|B)$ cannot be determined.
- $P(A \cup B) = 0.5$
- C
- B
- A
- C
- B
- D
- A
- A
- D
- B
- Probably 0.5 (or whatever the probability of having a girl was for each of the other 5 babies)
- a) 0.3 b) 0.1
- a) 0.0909 b) 0.3182 c) 0.2879
- a) 0.4540 b) 0.3535 c) No.
- a) 0.25 b) 0.75 c) No.
- a) 0.3 b) 0.6 c) 0.325 d) 0.9231
- a) $E(X) = 1.2$, $SD(X) = 0.7483$
b) $E(X) = 280$, $SD(X) = 87.178$