

Math 115 - Quiz 7

October 23, 2014

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (1 point) Of the cans produced by a company, 96% do not have a puncture, 93% do not have a smashed edge, and 89.3% do not have a puncture and do not have a smashed edge. Find the probability that a randomly selected can does not have a puncture or does not have a smashed edge.

2. (1 points) Refer to the problem above. What is the probability that a randomly selected can does have a smashed edge?

3. (1 point) Find $P(B)$ if A and B are events with $P(A) = 0.5$, $P(A \cup B) = 0.9$, and $P(A \cap B) = 0.3$.

4. (2 points) Three coins are flipped.
 - (a) Sketch the tree diagram for this experiment.

 - (b) What is the probability that at least two heads are obtained?