Name
Chapter 9 Review Problem
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The payoffs in the casino game Chuck-a-Luck are determined by the number of threes that appear when a set of
four-sided dice (a four-sided die has the numbers 1, 2, 3, and 4 on its faces) are tossed.

a. If 20 dice are tossed, what is the probability that at most 4 threes will appear?

b. If 12000 dice are tossed, what is the probability that at most 2990 threes will appear?