

Group\_\_\_\_\_Names\_\_\_\_\_

## Group Quiz for Section 9.2

1. Suppose I roll a fair die  $n$  times. Let  $S_n$  be the sum of the  $n$  rolls.

(a) What should  $\frac{S_n}{n}$  be if  $n$  is large?

(b) Estimate how large  $n$  needs to be so that

$$\mathbb{P} \left[ \frac{S_n}{n} > 4 \right] \leq .05.$$