

Quiz 8**Student's Full Name and Number:**

Question 1: Suppose you toss a pair of dice and write down the value of the faces from each die.

a) What is the sampling distribution of the sample means obtained by tossing two dice?

b) What is the probability that the sample mean is greater than two?

Question 2:

The mean selling price of senior condominiums in Green Valley over a year was \$215,000. The population standard deviation was \$25,000. A random sample of 100 new unit sales from was taken.

- What is the probability that the sample mean selling price was more than \$210,000?
- What is the probability that the sample mean selling price was between \$213,000 and \$217,000?
- What is the probability that the sample mean selling price was between \$214,000 and \$216,000?
- Without doing the calculations, state in which of the following ranges the sample mean selling price is most likely to lie:
\$213,000 to \$215,000; \$214,000 to \$216,000;
\$215,000 to \$217,000; \$216,000 to \$218,000