

Problem set 4, due Monday 9/28/2015

Note: Please submit Excel files to me by e-mail, before class on Monday

Dice experiment

Use Excel to simulate experiments which work as follows: In each of 10,000 trials, you roll d fair six-sided dice, and record the sum, s , of the values you roll. Make a column chart with possible values of s on the horizontal axis, and the number of times you get that value on the vertical axis. Preferably, you should leave the random numbers live so that they can continue to generate new experiments. Try this for each of the following values of d :

$$d = 1$$

$$d = 2$$

$$d = 8$$

$$d = 16$$

Exercises from the book

3.22: defective rate

3.24: speeding on the I-5, part II

3.39: rolling a die

3.43: customers at a coffee shop