

Elementary Statistics  
Excel Assignment 2

Sampling distribution

We rolled 4 six-sided balanced dice 50 times in class (MWF 1.00 p.m.). The data collected is given below.

$x_1$	$x_2$	$x_3$	$x_4$	$\bar{x}$
4	4	4	3	
2	3	4	5	
1	2	3	4	
2	3	6	6	
1	2	5	6	
1	4	5	6	
1	1	2	4	
1	1	1	4	
3	3	5	6	
1	2	1	5	
1	3	4	4	
1	4	6	6	
2	2	5	6	
1	2	3	5	
1	5	5	4	
1	2	3	6	
3	3	5	5	
2	4	4	4	
1	2	5	6	
4	5	6	6	
1	3	4	5	
2	3	4	6	
3	4	6	6	
2	2	3	5	
2	3	4	5	
2	2	3	5	
4	4	5	6	
4	4	4	6	
1	3	4	6	
2	2	6	6	
1	2	3	3	
2	2	3	3	
2	2	5	6	
5	5	6	6	

2	4	4	6	
2	2	3	3	
1	4	4	4	
3	4	4	6	
1	3	4	5	
3	3	4	5	
1	2	1	5	
3	4	5	5	
2	2	6	6	
1	2	3	4	
1	4	4	5	
1	4	5	5	
3	3	4	4	
2	4	4	5	
1	1	4	5	
1	2	4	6	

- 1 Find the sample average for each row.

Example: First row.  $\frac{4+4+4+3}{4} = 3.75$

- 2 Find the summary statistics of  $\bar{x}$ .
- 3 Construct a histogram for  $\bar{x}$  using bins 0.499, 0.999, 1.499, ..., 5.999.