Name_____

Tables for simple Models (Densities) Math 151

Day_____

Each small square has area 1/100 or .01. (Each big square has 25 small squares, or 25/100 or .25.)

1) Convince yourself that each density actually has area 1, using geometry and/or counting squares.

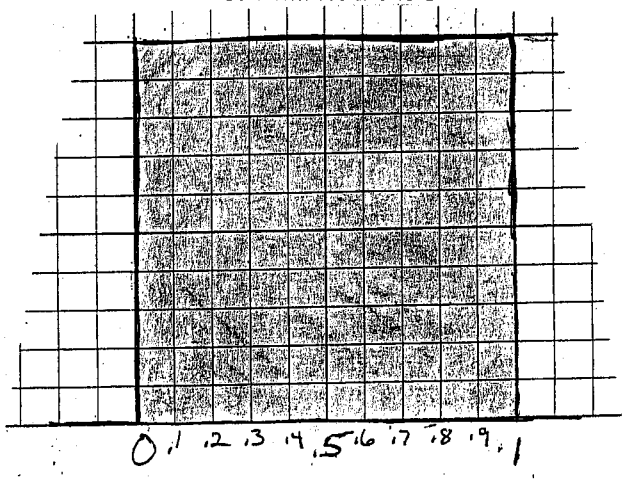
2) Fill in the missing values in the tables, using geometry and/or counting squares and parts of squares. Each value is the area under the curve to the left of the "x" value. It represents the proportion of observations below x.

3) Answer the extra questions.

A. Uniform

x	Area to the left of x
0	
.1	
.2	
.3	
.4	
.5	
.6	
.7	
.8	
.9	
1.0	
1.1	

Uniform from 0 to 1



a) The area below (to the left of) .6 is _____ To the right of .6 is _____. They sum to ____

b) The area to the left of .6 is _____ Below .2 is _____. Between .2 and .6 is _____ .

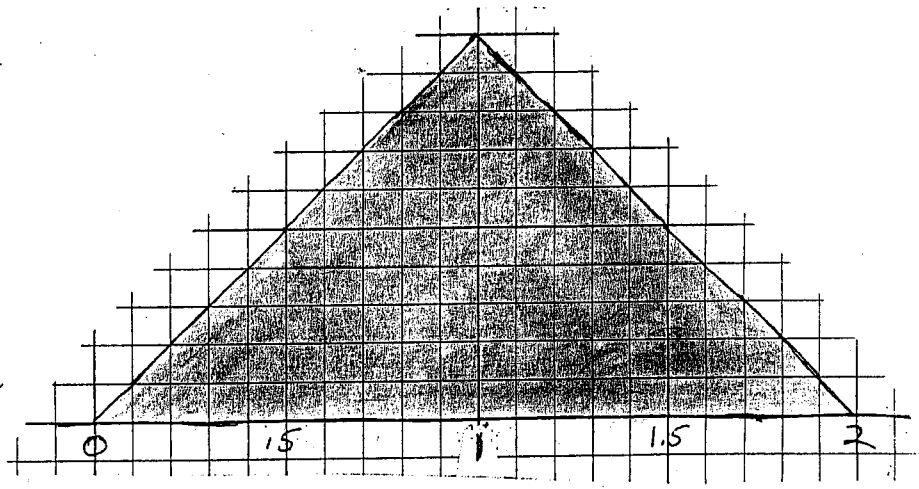
c) What x value has area .4 TO THE RIGHT OF it?_____ .

What is the 40th percentile? _____

B. Triangular

x	Area to the left of x
0	
.2	
.4	
.6	
.8	
1	
1.2	
1.4	
1.6	
1.8	
2.0	

Triangular from 0 to 2



a) The area to the left of .6 is _____ To the right of .6 is _____. They sum to _____

b) The area below 1.6 is _____ Below 1 is _____. Between 1 and 1.6 is _____

c) What x value has area .92 ABOVE it?_____ .

(Hint: What x value has area . 08 Below it?) What is the 8th percentile?_____