Math 153 - Quiz 2 September 3, 2015

Show all work to receive full credit. Supply explanations when necessary.

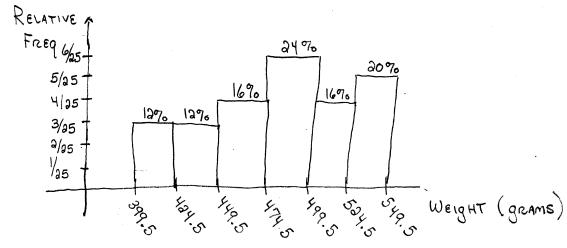
1. (6 points) Researchers studying Mariana fruit bats caught and weighed 25 adult males bats. Following are their weights (in grams).

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489	.481	495	545	538	518	479	

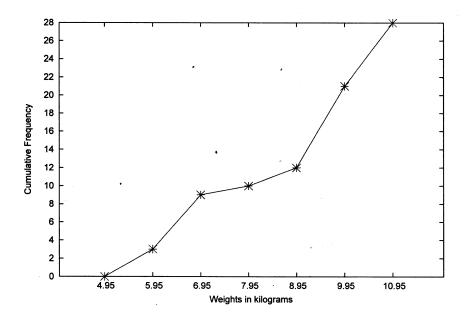
(a) Construct a frequency distribution for the weights above. Use at least 5 classes.

WEIGHT	FREQUENCY
400-424	3
425 - 449	3
450 - 474	4
475-499	6
500 - 524	4
525 - 549	5

(b) Using class boundaries for tick marks along your horizontal axis, construct the **relative frequency histogram** corresponding to your frequency distribution.



2. (3 points) The following ogive shows the distribution of weights (in kilograms) of five-week-old piglets in a sample taken by a local farmer.



(a) How many piglets are in the sample described by the ogive?

(b) In which range of weights (4.95–5.95, 5.95–6.95, etc.) were there the most piglets?

(c) If a **relative frequency histogram** was constructed with the same data, what would be the height of the bar associated with the interval 5.95–6.95?

3. (1 point) The frequency distribution shown below gives the daily high temperatures (in °F) last year in Cleveland, OH.

High Temp (°F)	Frequency
20.0-30.8	19
30.9–41.7	43
41.8 – 52.6	68
52.7–63.5	69
63.6-74.4	74
74.5–85.3	68
85.4–96.2	24

What are the class boundaries associated with the first class listed above?