## Math 115 - Quiz 2

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

1. (5 points) A frequency distribution is shown below.

Lengths (ft)	Frequency
4.5-8.4	2
8.5–12.4	7
12.5 – 16.4	5
16.5–20.4	2
20.5-24.4	1

(a) What are the lower class limits?

(b) What is the class width?

(c) What are the class boundaries?

(d) If the frequency distribution was changed to a relative frequency distribution, what relative frequency would be associated with the class 12.5–16.4?

$$2+7+5+2+1=17$$
  $\frac{5}{17}\approx 29.4\%$ 

(e) Sketch the histogram that corresponds to the frequency distribution.

