ß	Pg. 101 - list out the three things that make a density curve has a vea = exactly 1 % 15 always on or above horrest
	* Describes overall pattern of dist
	pg. 103 – list out how to distinguish between the mean and median in a density curve
	The median of a dentity is where the cure split in 1/2 (divides area under cure in
	the curve split in 1/2 (divides area walk curve in
	Mean-balance point - where the cure would bal what is the total area under any curve? If made of solid m
	(00%)
	2.35% 13.5% 34% 34% 34% 0.15
	-3 2 0 2 3 Standard Deviations
	This is a normal curve. At the ends (nast 3 standard deviations) you need to WRITE IN 0.15% on each side

- With a **yellow**, color the entire curve (end to end)

- With a **red**, color from -3σ to 3σ . Add those percentages together. What is it?

- With a **blue**, color from -2σ to 2σ . Add those percentages together. What is it? 95%

With a green, color from -1σ to 1σ . Add those percentages together. What is it?

You have	iust done	the E	mpirical	Rule.

Now write it clearly down here. **Between** 1σ from the mean either direction $\frac{60\%}{95\%}$ of the data lies of the data lies **Between** 3σ from the mean either direction 99.7% of the data lies

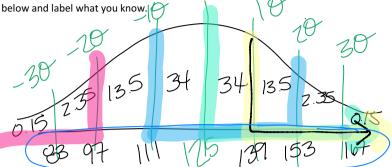
Mean

How do you count on either side of the mean? What distance are you moving?

Std deviations

Practice with this problem. You will need to draw a curve.

The IQ scores of our class are normally distributed with a mean of 125 and a standard deviation of 14. Draw out a curve



What percent of the data is above a score of 125?

507.

What percent of the data is less than 97?

2.5%

What percent of data is between 111 and 153?

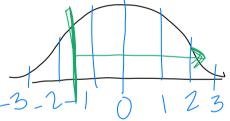
8151

What percent of the data is above 139?

16%

Now convert the above problem to z-scores. So the mean is 125 and the standard deviation is 14. Then draw yourself a

new curve.

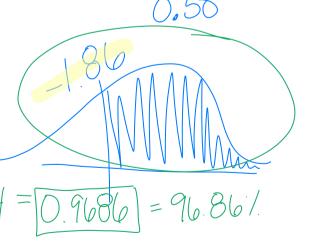


What is the probability of finding an IQ score below 0?

0.50

What is the probability of finding an IQ above 0?

What is the probability of the entire curve?



5 FOR 5 1St

Find percentile

85th, 93rd,

$$\frac{93(1+10)}{100} = 10.23$$

$$\frac{85(1+0)}{100} = 9.35 \text{ position}$$

$$\frac{21 \Rightarrow 944 \text{ tepm}}{100}$$

$$\frac{51(1+10)}{100} = 5.61$$

$$\frac{51(1+10)}{100} = 5.61$$