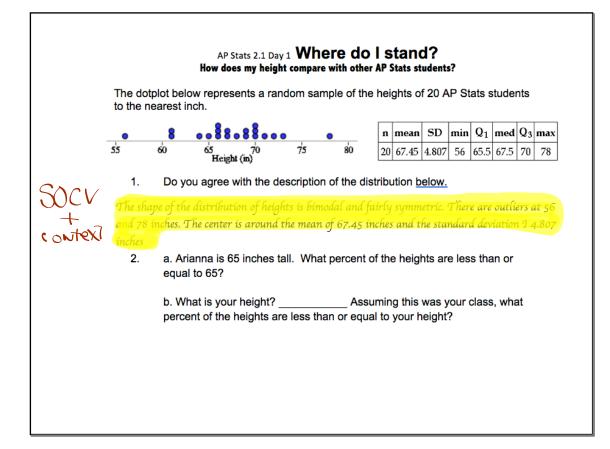
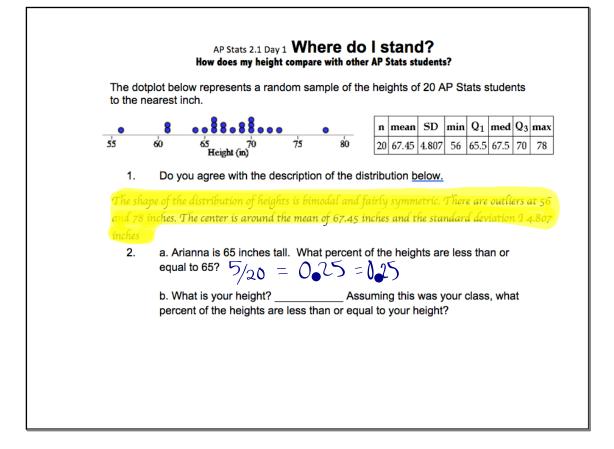
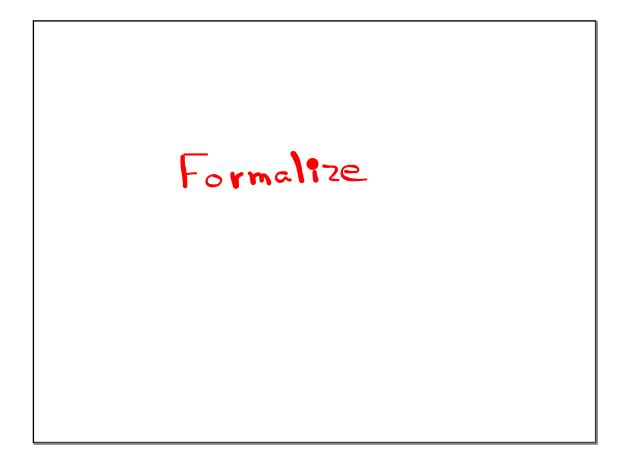
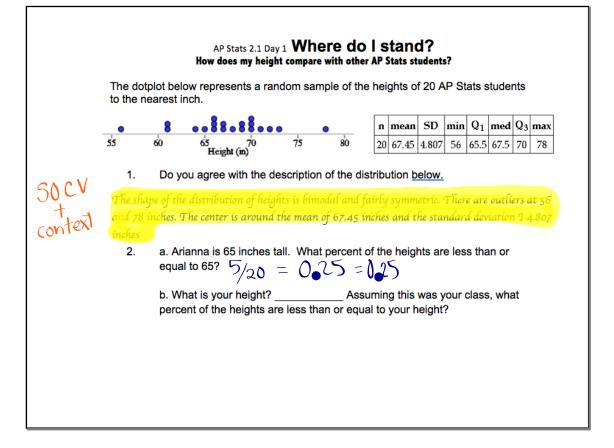


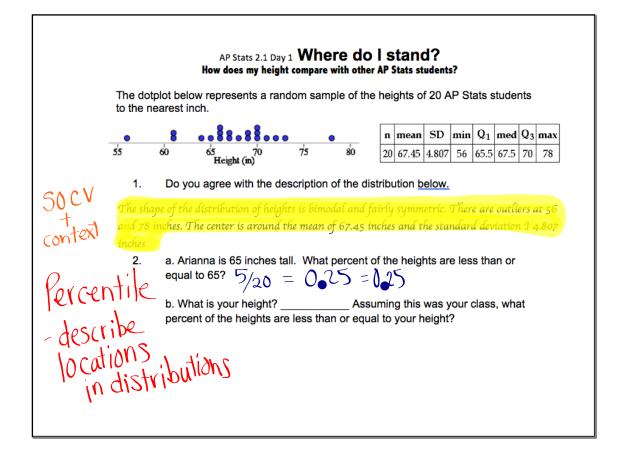
Pick Up the handout do #1 and #2

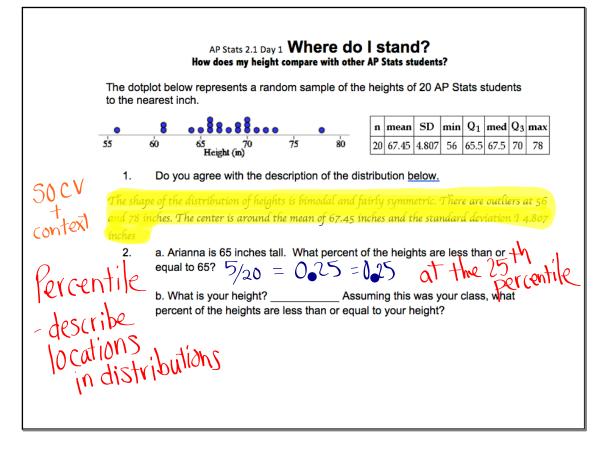








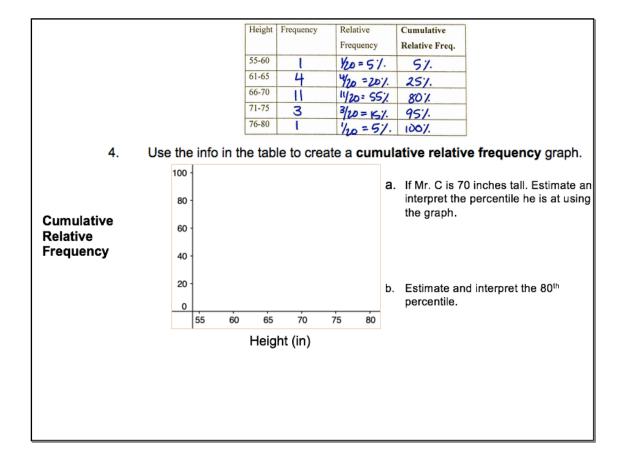


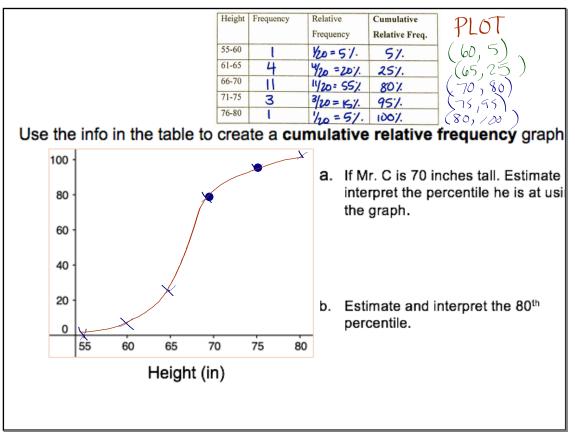


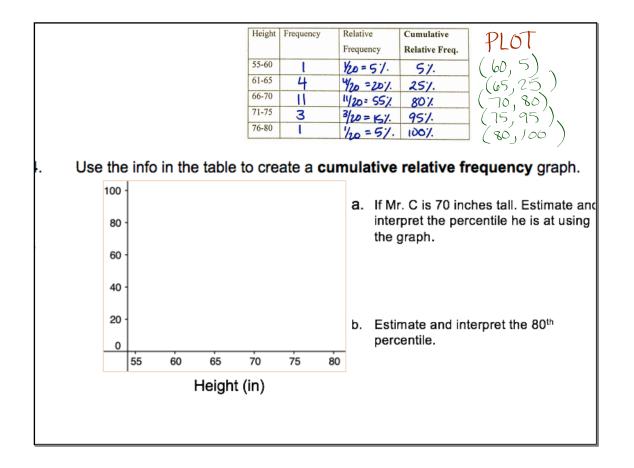
FrequencyRelative Freq.55-60 $20 = .05 = 5'$ $5'$ 61-65 $4'_{20} = 20'$ $25'$ 66-70 $1'_{20} = 55'$ $80''$ 71-75 $3'_{20} = 15''$ $95''$ 76-80 $1'_{20} = 5''$ $100''$	55-60 $20 = .5 = 5^{1}$ 5^{-} 61-65 4^{-} $4^{-}_{20} = 20^{-}$ 25^{-} 66-70 $7^{-}_{20} = 55^{-}$ 80^{-7}_{-} 71-75 $3^{-}_{20} = 15^{-7}_{-}$ 95^{-7}_{-}	55-60 $20 = .5 - 5'$ $5'$ 61-65 $4'_{120} = 20'$ $25'$ 66-70 $1'_{20} = 55'$ $80'$ 71-75 $3'_{20} = 15'$ $95'$	3.	Complete the table.	Height	Frequency	Relative	Cumulative
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					Frequency	Relative Freq.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			55-60	1	20 = 15=5	5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			61-65	4	4/20 = 20"	
71-75 3 $3/20 = 15''$ 95'	71-75 3 $3/20 = 15/1$ 95	71-75 3 $3/20 = 15''$ $95''$				//	1/20 = 55	80%
76-80 / $1/20 = 5^{-1}$ / 00^{-2}	76-80 / $1/20 = 5^{-1}$ / 00 ⁻¹	76-80 / 1/20 = 5 ⁻¹ / 00 ⁻²				3	Pro = 15'	
		ι <u></u> ε			76-80	/	1/20= 5''	100-

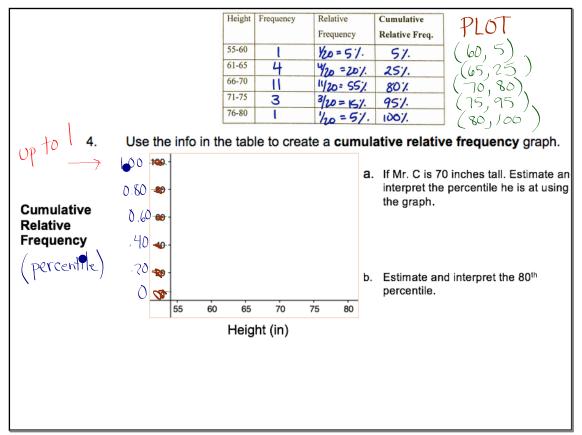
September 17, 2019

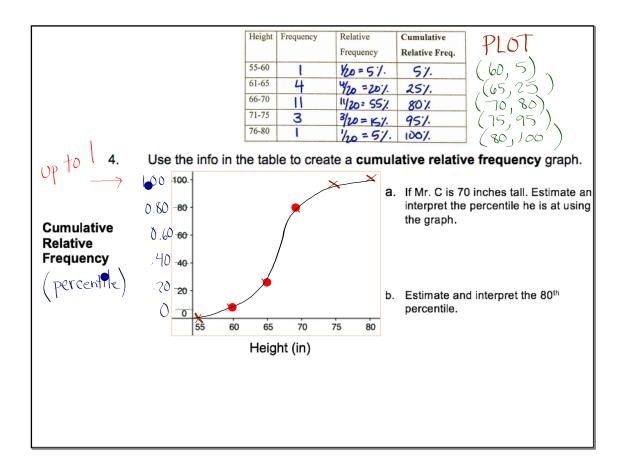
3.	Complete the table.						
5.	pompiere the table.	Height	Frequency	Relative	Cumulative		
				Frequency	Relative Freq.		
		55-60	/	1/20 = 5'1.	5.		
		61-65	4				
		66-70	11				
		71-75	3				
		76-80	/				

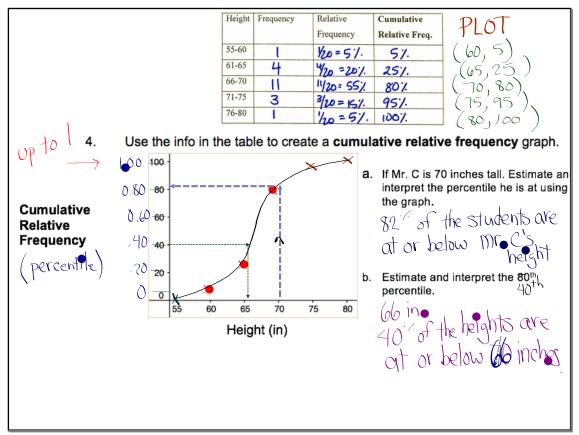


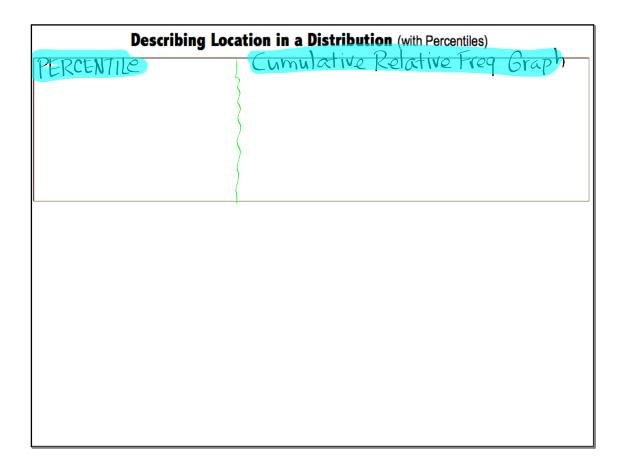


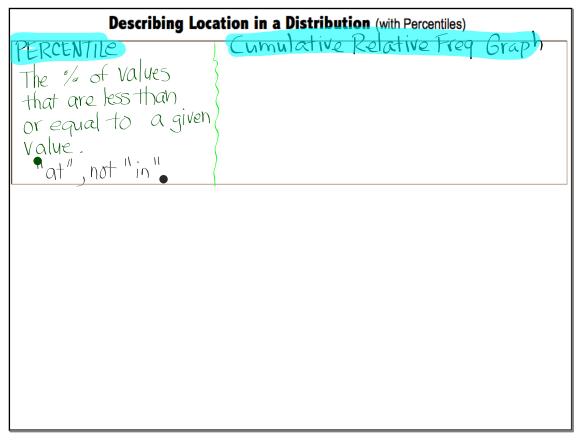


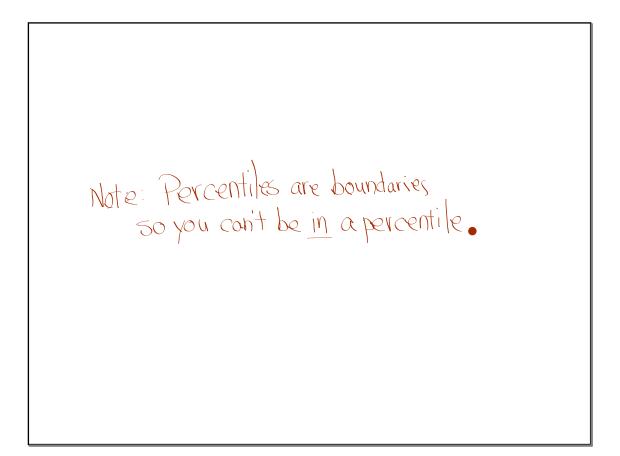


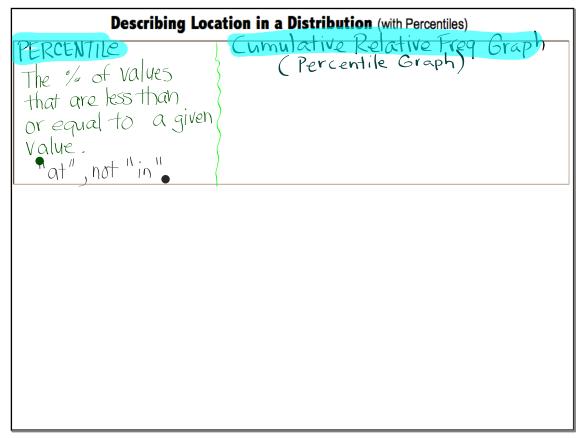


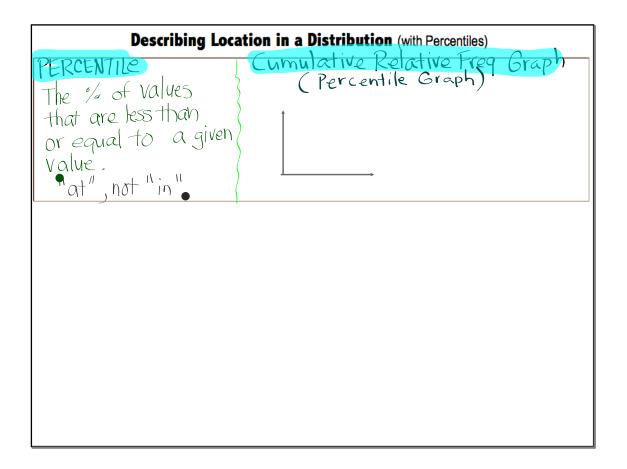


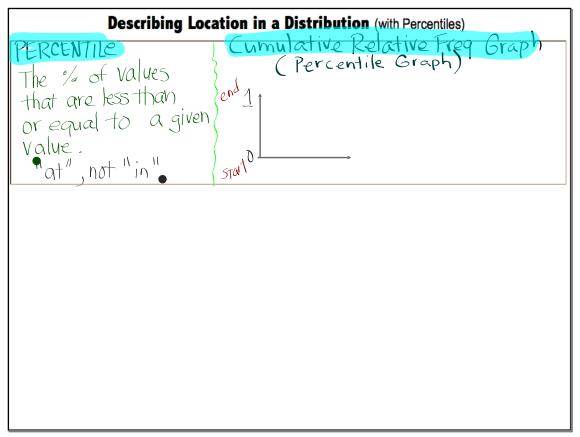


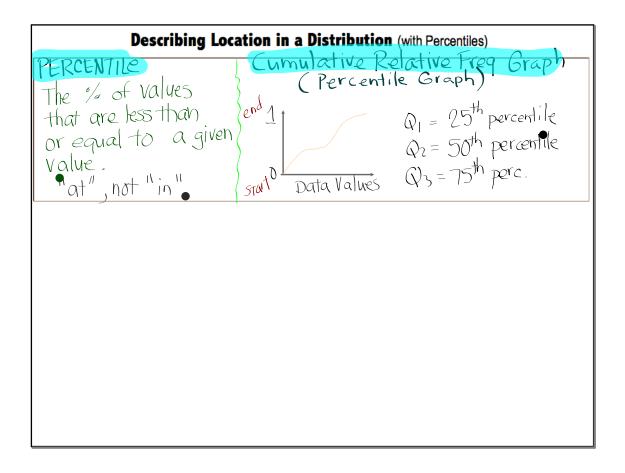


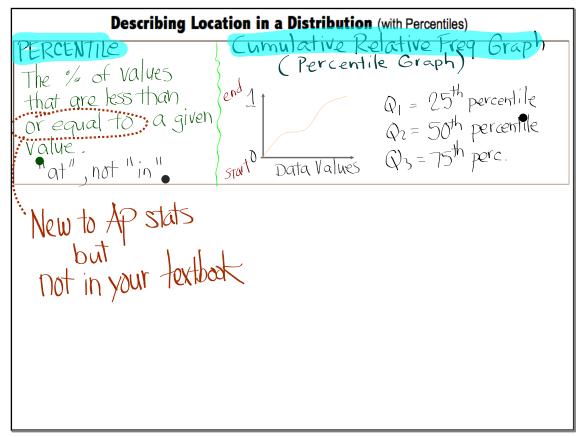












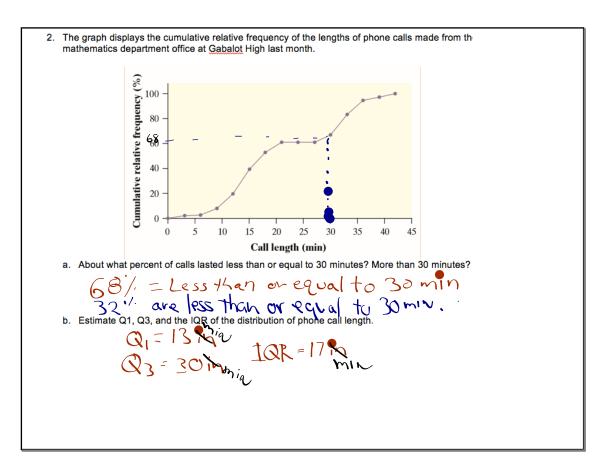
Check Your Understanding:

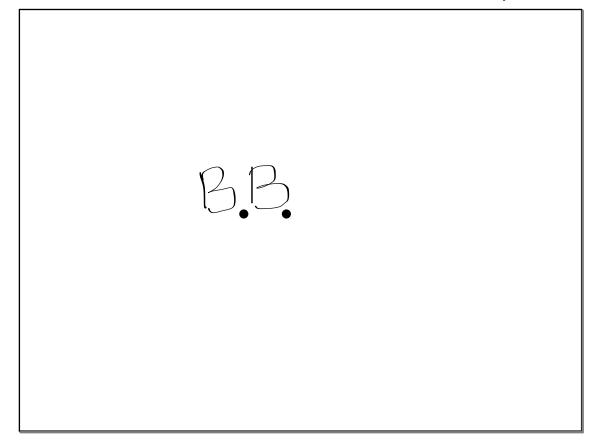
1. Mrs. Munson is concerned about how her daughter's height and weight compare with those of other girls of the same age. She uses an online calculator to determine that her daughter is at the 87th percentile for weight and the 67th percentile for height. Explain to Mrs. Munson what these values mean.

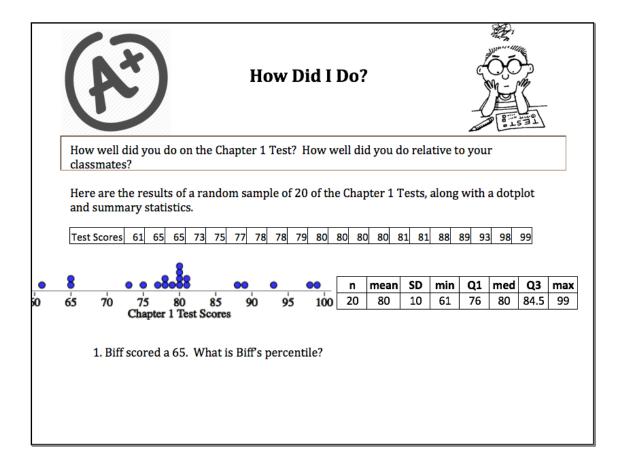
September 17, 2019

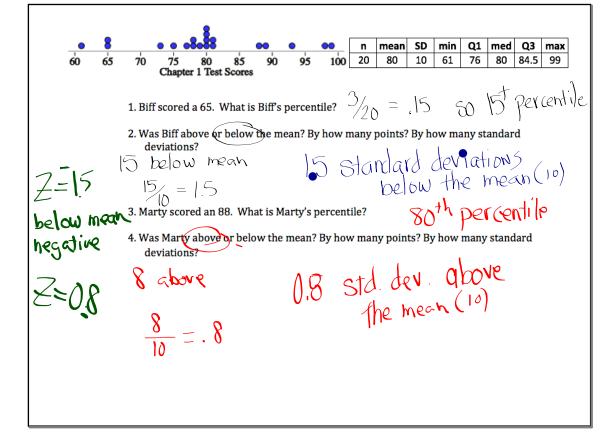
Check Your Understanding:

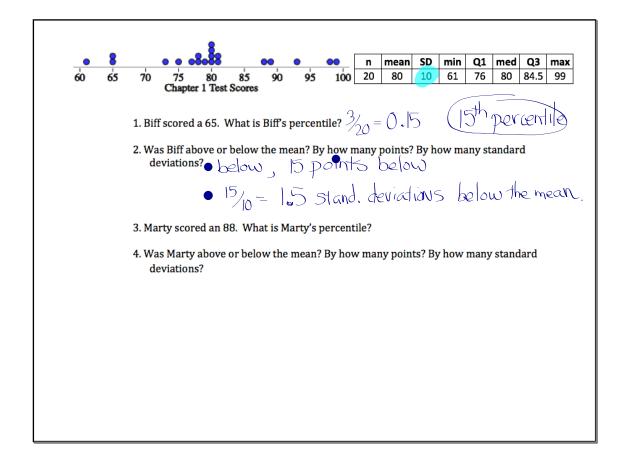
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 of girls of the same age have a weight that is less than or equal to her daughter's weight.

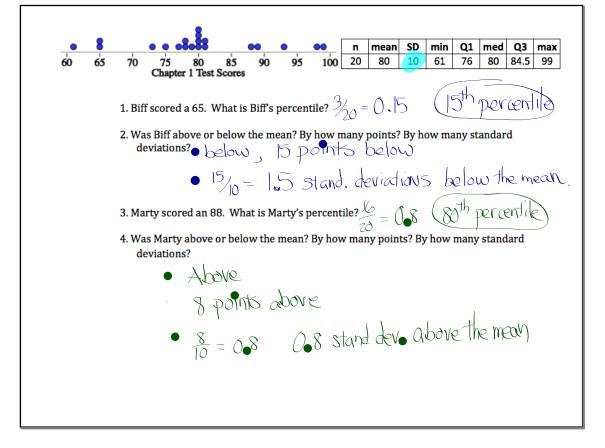


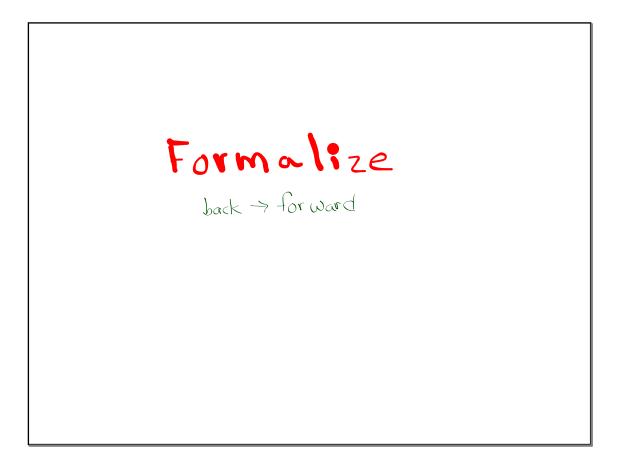












A z-score is defined as the number of standard deviations above or below the mean. $z = \frac{Value - mean}{SD}$ 5. Write a formula for calculating a z-score. 6. Goldie scored a 98 on the Chapter 1 Test. Find and interpret the z-score. 99-90 10 = 1.8 Goldies Score is above one mein by Bonus: Goldie was aspiring for what job? 68 soundard bevighous A z-score is defined as the number of standard deviations above or below the mean.

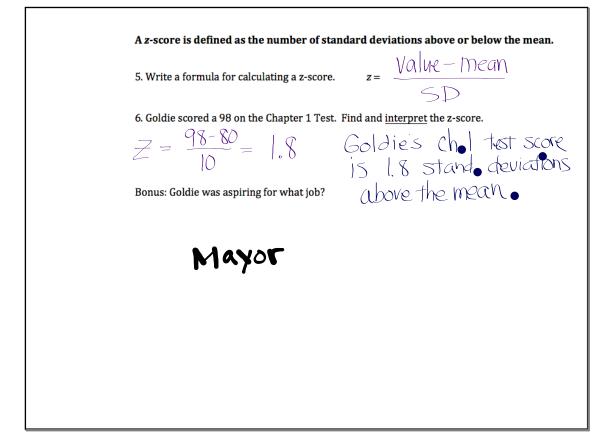
5. Write a formula for calculating a z-score.

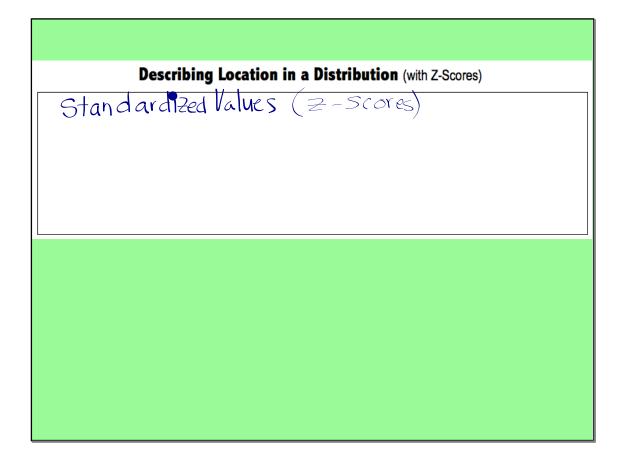
 $z = \frac{Value - Mean}{CD}$

6. Goldie scored a 98 on the Chapter 1 Test. Find and <u>interpret</u> the z-score.

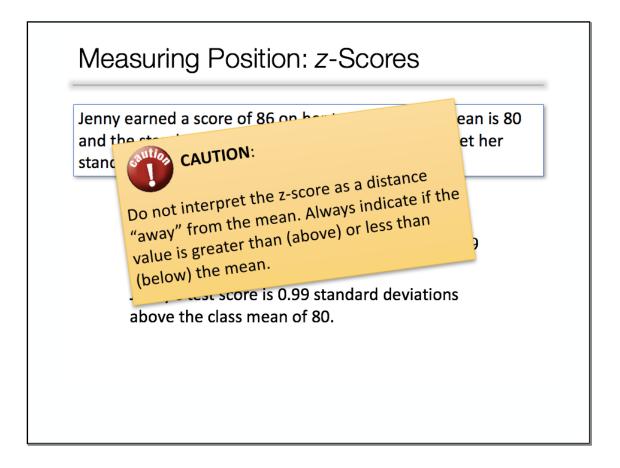
 $Z = \frac{98-80}{10} = 1.8$

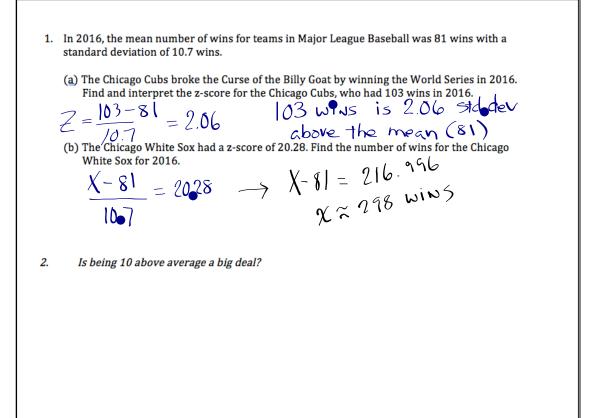
Bonus: Goldie was aspiring for what job?

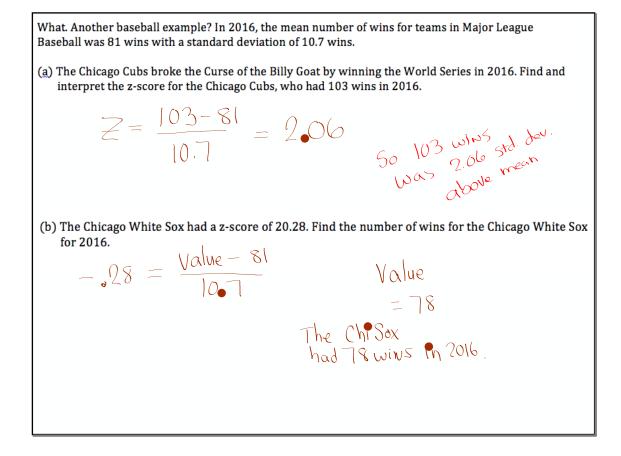




Describing Location in a Distribution (with Z-Scores) Standardized Values (Z-Scores) $Z = \frac{\text{Value-mean}}{\text{SD}_{\bullet}} \qquad \underbrace{\text{Context}}_{\text{above (or below)}} \text{ the mean}.$ Can be negative







Is being in a high Percentile always a good thing?

What about cholesterol levels in men?

3. Macy, a 3-year-old female is 100 cm tall. Brody, her 12-year-old brother is 158 cm tall. Obviously, Brody is taller than Macy—but who is taller, relatively speaking? That is, relative to other kids of the same ages, who is taller?

According to the CDC, the heights of three-year-old females have a mean of 94.5 cm and a standard deviation of 4 cm. The mean height for 12-year-olds males is 149 cm with a standard deviation of 9 cm.

beignment 2.1 1, 3, 7, 9, 11, 13, 15, 19 and study pp. 91-97