

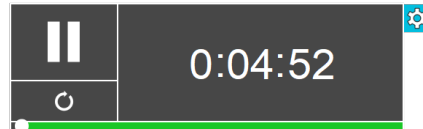
## ***February 10, 2020***

1) Notes

2) CALC

3) Homework

4) Test Make-up

Z-Score: Extra PracticeHomework Grades - Unit 2

95, 95, 85, 78, 18, 88, 100, 75, 95

1. Calculate the mean and standard deviation.

$$\bar{x} = 81 \quad S_x = 25.1$$

2. Calculate the z-score of the student who scored an 88% on HW. What does this number mean?

$$z = \frac{x - \bar{x}}{S_x} \quad z = \frac{88 - 81}{25.1} = 0.28$$

3. Based on the z-score, would you consider a score of 18% on HW unusual? Why or Why not?

$$z = \frac{x - \bar{x}}{S_x}$$

$$z = \frac{18 - 81}{25.1} = -2.51$$

$$-3 \leq z \leq 3$$

No b/c the z-score falls b/w -3/3.

4. Which student had a z-score close to 0.6?

$$z = \frac{x - \bar{x}}{S_x}$$

$$(25.1) 0.6 = \frac{x - 81}{25.1} (25.1)$$

$$\frac{15.06 = x - 81}{+81} \quad \frac{+81}{+81}$$

$$x = 96.06$$

\*95% is closest to z-score of 0.6