# Week 2 - Z Score Practice Questions

1. For a norm group with a mean of 100 and a SD of 15, answer the following questions:

a. What is a Z score for a score of 115? Show your working.

Z = score-mean divided by SD; (115-100)/15 = 1

b. What is a Z score for a score of 85? Show your working.

(85-100)/15 = -1

2. For a norm group with a mean of 8 and a SD of 2.5, answer the following questions:

a. What is the Z score for a raw score of 9?

(9-8)/2.5 = 0.4

b. What is the Z score for a raw score of 12.5?

(12.5-8)/2.5 = 1.8

c. What is the raw score for a Z score of -0.3?

(-0.3\*2.5) =-0.75; +8 = 7.25

3. For a raw score of 6, a z score of 5, and a norm group standard deviation of 2

a. What is the norm mean?

Z = 5

5 = (6-X)/2;

Times by 2 to get rid of denominator: 10 = 6-X

-X = (10-6) = 4

X = -4

b. Using the norm mean from a, what is the Z score for a raw score of 0.3?

0.3 - -4 = 0.3+4, = 4.3

Z = 4.3/2 = 2.15