Quiz 2

1. (a) For each list below, calculate the mean and the sd.

   (i) 1, 3, 4, 5, 7

   (ii) 6, 8, 9, 10, 12

   (b) How is list (ii) related to list (i)? How does this relationship carry over to the mean? The sd?

2. Convert the values in 1(a)(i) to standard units.

3. (a) A list of numbers has mean $= 4$ and sd $= 2$. Convert $x = 6$ to standard units.

(b) What value x has value -2 in standard units? Assume that the mean is 4 and sd is 2.

4. If $x = 5$, then $z = 1$. If $z = -2$, then $x = -4$. Find the mean and sd.

5. Compute the RMS for each list.

a) $1, -1, 1, -1$

b) $1, 1, 1, 1, 1$

c) $2, -3, 1, -1, 7, -4$