Complete each problem, showing **ALL** work.

1. Alamance Country Club hires a pool staff consisting of lifeguards and a pool director each summer. The pool director makes $10,000 over the summer and the lifeguards make $3000 each over the summer. Over the summer of 2012 there were 6 lifeguards and one pool director, and this year they intend to hire one pool director and 8 lifeguards. **Will the average salary of the pool staff increase or decrease in 2013?** Use mathematics to back up your answer. (hint – you need to find the average of the salaries in 2012 and 2013 and compare)

2. The chart below shows the number of miles Sam drove each day for two weeks.



What is the difference in average daily miles between the two weeks?

3. Veronica and James are both on a bowling team. Below are their bowling scores.



How much higher is Veronica’s median score than James’s median score?

4. The table below shows the number of tornadoes reported in the United States from 1997 –2007. Find the mean, median, and mode for the number of tornadoes. If necessary, round to the nearest tenth.



5. Elijah scored a 93, 97, 75, and 100 on four Science tests. What will he need to score on the fifth test to have a test average of exactly a 93?