**StatKey Normal Distribution Solutions**

According to UFC fighter data the mean striking accuracy percent is 43.2 with standard deviation 12.6. Assume the distribution is approximately normal. Answer the following questions using StatKey.

1. Houston Alexander had a striking accuracy percentage of 54%. He had a better striking accuracy percentage than what proportion of fighters?

0.804

1. Shamar Bailey had a striking accuracy percentage of 20%. What proportion of fighters had a better striking accuracy percentage than him?

0.967

1. What proportion of fighters are in between Bailey and Alexander’s striking accuracy percentages (between 20 and 54 percent)?

0.772

1. Fighters with the top 10% for accuracy percentage have above what accuracy percentage?

59.347

1. Find Q1 of the accuracy distribution.

34.702

1. What values cut off the middle 80% of the distribution?

27.053 and 59.347