Math 10 – Hypothesis Testing 3

ANSWERS gw16

1. An environmentalist estimates that the mean waste recycled by adults in the United States is more than 1 pound per person per day. You want to test this claim. You find that the mean waste recycled per person per day for a random sample of 12 adults in the United States is 1.2 pounds and the sample standard deviation is 0.3 pound. At α = 0.05, can you support the claim?



2. A government association claims that 44% of adults in the United States do volunteer work. You work for a volunteer organization and are asked to test this claim. You find that in a random sample of 1165 adults, 556 do volunteer work. At α = 0.05, do you have enough evidence to reject the association's claim?

