Instructions: Answer each question as thoroughly as possible. Round answers to 4 decimal places as needed. Exact answers are best when possible. Be sure to answer all parts of each question.

Name

Do people taking two different routes of the same length take the same amount of time? Use
the data in the table and conduct a permutation test of the data to see if the means are
different.

Ho: 11 = 12 Ha: 11 7 112

Original mean = - 15.01667

p-val = 2×10-4

	Transit times (h)	
	Sample 1 (Treatment A)	Sample 2 (Treatment B)
	44	52
	51	64
	52	68
	55	74
160,000	60	79
	62	83
	66	84
The second	68	88
	69	95
	71	97
	71	101
	76	116
	82	
	91	
	108	

2. Use bootstrapping to construct a 95% confidence interval of the data above. Compare the result to using a t-interval of the mean differences.

bootshapping answers may vary some

t-interval: (-28.742, -1.291)

this are is a but wider but similar