6.)

(i) This problem relates to the methods we learned in class because it requires an understanding of R, p-values, confidence intervals and paired data.

```
Let \mu 1 = average percentage of soil passing through sieve at location 1
Let \mu 2 = average percentage of soil passing through sieve at location 2
```

From the output, we are 95% certain that the true difference in means lies between -5.4896542 and -0.1853458.

By utilizing our signed-rank procedure, we find that the resulting p-value and 95% confidence interval are remarkably similar to those found in part (a).