For their second semester project in AP Statistics, Libby and Kathryn decided to investigate which line was faster in the supermarket, the express lane or the regular lane. To collect their data, they randomly selected 15 times during a week, went to the same store, and bought the same item. However, one of them used the express lane and the other used a regular lane. To decide which lane each of them would use, they flipped a coin. If it was heads, Libby used the express lane and Kathryn used the regular lane. If it was tails, Libby used the regular lane and Kathryn used the express lane. They entered their randomly assigned lanes at the same time and each recorded the time in seconds it took them to complete the transaction. Carry out a test to see if there is convincing evidence that the express lane is faster.

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| **Time in** **Regular Lane** **(seconds)** | **Time in** **Express Lane** **(seconds)** |
| 342 | 337 |
| 472 | 226 |
| 456 | 502 |
| 529 | 408 |
| 181 | 151 |
| 339 | 284 |
| 229 | 150 |
| 263 | 357 |
| 332 | 349 |
| 352 | 257 |
| 341 | 321 |
| 397 | 383 |
| 694 | 565 |
| 324 | 363 |
| 127 | 85 |