A researcher decided to examine the relationship between the number of churches in a town and the number of bars to see if churches influence the number of bars opened. Given the following data 1) create a scatter plot, 2) find *r*, and 3) use the five hypothesis testing steps to determine if that correlation is significant at the .05 significance level.

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|  | Bars | Churches |
| City 1 | 83 | 151 |
| City 2 | 572 | 2598 |
| City 3 | 22 | 120 |
| City 4 | 28 | 291 |
| City 5 | 38 | 341 |
| City 6 | 250 | 2402 |
| City 7 | 22 | 148 |

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| Step 1: |
| Step 2: |
| Step 3: |
| Step 4: |
| Step 5: |
| Step 6: |