

1. What would the hypotheses be for an investigation into the claim that the SRCC between two variables is negative?

 $\Box H_1$: x and y are independent

□H1: x and y are not independent

 $\Box H_1$: there is a positive correlation between x and y

 \boxtimes H_1 : there is a negative correlation between x and y

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 $\Box H_0$: there is a positive correlation between x and y

 \Box Ho: there is a negative correlation between x and y

2. What would the hypotheses be for an investigation into the claim that there is no correlation between two variables?

 \boxtimes H_0 : x and y are independent $\square H_1$: x and y are independent

 \Box H₀: x and y are not independent \boxtimes H₁: x and y are not independent

□Ho: there is a positive correlation between x and y □Ho: there is a positive correlation between x and y

□Ho: there is a negative correlation between x and y □Ho: there is a negative correlation between x and y

3. What would the hypotheses be for an investigation into the claim that the SRCC between two variables is -0.254?

 \blacksquare H_0 : x and y are independent \blacksquare H_1 : x and y are independent

 \Box H₀: x and y are not independent \Box H₁: x and y are not independent

 \Box H₀: there is a positive correlation between x and y \Box H₁: there is a positive correlation between x and y

 \Box H $_0$: there is a negative correlation between x and y oxtimes H $_1$: there is a negative correlation between x and y

4. What would the hypotheses be for an investigation into the claim that the SRCC between two variables is +0.848?

 \boxtimes H_0 : x and y are independent $\square H_1$: x and y are independent

 \Box H₀: x and y are not independent \Box H₁: x and y are not independent

□Ho: there is a positive correlation between x and y \bigsim H₁: there is a positive correlation between x and y

 \Box Ho: there is a negative correlation between x and y \Box H1: there is a negative correlation between x and y

5. What would the hypotheses be for an investigation into the claim that there is a positive correlation between the number of TV channels subscribed to and the average number of hours of TV watched per week?

☑ Ho: x and y are independent

☐ H₁: x and y are independent

□Ho: x and y are not independent □Ho: x and y are not independent

□Ho: there is a positive correlation between x and y ☑ H₁: there is a positive correlation between x and y

□Ho: there is a negative correlation between x and y □Ho: there is a negative correlation between x and y

6. What would the hypotheses be for an investigation into the claim that there is a correlation between the weight of a volunteer and the height at which they are willing to jump from?

□Ho: x and y are not independent

 \Box H₀: there is a positive correlation between x and y

 \Box Ho: there is a negative correlation between x and y

□H1: x and y are independent

 $\Box H_1$: there is a positive correlation between x and y

 $\Box H_1$: there is a negative correlation between x and y

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