YouTube is giving an award for the most popular “Let’s Play” channel, given the boom in this trend in the past few years. YouTube’s algorithm, flawed as it may be, has narrowed it down between two channels: PewDiePie and the Game Grumps, and decides to award them both the title of most popular. You are tasked with determining popularity over the course of their respective channels to see if YouTube got it right. You decide that you will randomly take 8 videos from each channel, spanning the channel’s history, and report the number of views (in 100,000s). Given the number of views below, are the Let’s Players significantly different using the *p* < .05 criterion?

|  |  |
| --- | --- |
| Game Grumps | PewDiePie |
| 2 | 4 |
| 3 | 5 |
| 2 | 8 |
| 4 | 9 |
| 5 | 10 |
| 2 | 3 |
| 1 | 6 |
| 6 | 7 |

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| Assumptions: |
| Step 1/2: |
| Step 3: |
| Step 4: |
| Step 5: |
| Step 6: |
| Confidence Interval: |
| Effect size: |

A record company is interested in knowing which two artists are selling more albums, and if there is a significant difference. They want to know is it An R&B artist or a Pop artist? Use the *p* < .05 criterion.

|  |  |
| --- | --- |
| R&B | Pop |
| 100 | 137 |
| 175 | 230 |
| 200 | 50 |
| 406 | 400 |
| 75 | 126 |
| 100 | 80 |
| 60 | 130 |
| 175 | 100 |
| 209 | 152 |
| 100 | 75 |

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| Assumptions: |
| Step 1/2: |
| Step 3: |
| Step 4: |
| Step 5: |
| Step 6: |
| Confidence Interval: |
| Effect size: |