# What Questions Can You Answer?

The following is a dataset of a bicycle rider’s training rides.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **date** | **miles** | **time** | **weather** | **average speed** | **max speed** |
| 04/10/2018 | 10 | 44 | “cloudy” | 13 | 30 |
| 05/30/2018 | 15 | 66 | “sunny” | 13.5 | 22 |
| 06/12/2018 | 12 | 61 | “rainy” | 11.2 | 25 |
| 06/22/2018 | 15 | 61 | “cloudy” | 13 | 28 |
| 07/04/2018 | 24 | 103 | “sunny” | 14 | 26 |
| 07/12/2018 | 24 | 120 | “windy” | 12.5 | 26 |

**What can you answer?** For each of the following questions, check the box to the left of questions you can answer. For each *checked* question, write whether the question is a **lookup**, **compute**, or **relate** question.

|  |  |  |
| --- | --- | --- |
|  | **Question** | **Lookup, Compute or Relate?** |
| ✓ | *What is the cyclist’s average speed across all rides?* | Compute |
| ✓ | *How many miles did they ride June 12th?* | Lookup |
|  | *Create a bar chart showing the avg speed per day* | Compute |
| ✓ | *Does this cyclist ride slower when it is rainy?* | Relate |
|  | *Does this cyclist ride faster when they are late to an appointment?* | Relate |

**What *can’t* you answer?** For each of the following questions, check the box to the left of questions you cannotanswer. For each *un-checked* question, write whether the question is a **lookup**, **compute**, or **relate** question.

|  |  |  |
| --- | --- | --- |
|  | **Question** | **Lookup, Compute or Relate?** |
| ✓ | *What tire pressure produces the highest avg speed?* | Relate |
|  | *What is the avg time it takes this cyclist to ride 1mi?* | Compute |
|  | *Does this cyclist ride more in April or July?* | Compute |
| ✓ | *What is the average speed this cyclist had on July 4th?* | Lookup |
| ✓ | *Create a pie chart showing the number of flat tires fixed each month* | Compute |