1A – Types of Data

**All Data Variables**

**Numerical Variables**

* *A number which represents a quantity*
* *Usually comes from either counting or measuring (NOT the frequency)*

**Categorical Variables**

* *A name or classification which represents a quality / attribute*
* *Does not have a meaningful quantity (even if it is a number)*

**Continuous**

**Variables**

* *Measured on a scale - infinite options*

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**Discrete**

**Variables**

* *Distinct quantities - can be counted*

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**Ordinal**

**Variables**

* *Categories that have an order*

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**Nominal**

**Variables**

* *Categories that do not have an order*

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*The data in the table below came from surveying 5 people. Classify each of the variables.*

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| --- | --- | --- | --- |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Weight (kg)** | **Number of Pets** | **Fitness Level**  (1 high, 2 medium, 3 low) | **Home Town** |
| 57 | 1 | 2 | Wodonga |
| 58 | 3 | 1 | Beechworth |
| 62 | 0 | 3 | Wodonga |
| 50 | 2 | 1 | Yackandandah |
| 65 | 1 | 2 | Wodonga |

1. What percentage of the respondents had less than 3 pets?
2. What percentage of the Wodonga residents had low fitness?