

## 3.3: Types of Data and Graphs

### Types of Data

Look at these 3 questions. *How is the data collected by each question different?*

1. Please circle the reason for your previous work absence.

Illness

Vacation and/or Holiday

Funeral

\*this is categorical data

2. How many km/L of gas does your current car get per tank?

\*this is continuous data

3. How many years of schooling does your career require?

\*this is discrete data

### Definitions to memorize:

#### Categorical Data

#### Continuous Data

#### Discrete Data

**Example #1** For each of these examples, state what type of data it represents

a) number of pets at home

c) amount of coffee (in mL) drank in one day

e) gender

g) weight

b) types of pets at home

d) mark on a test

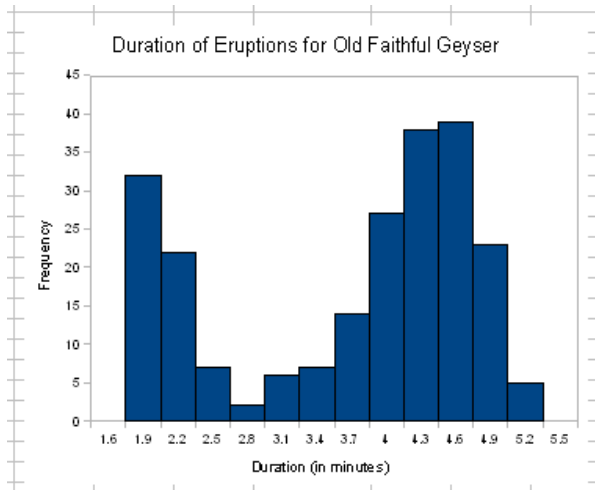
f) age

h) hair colour

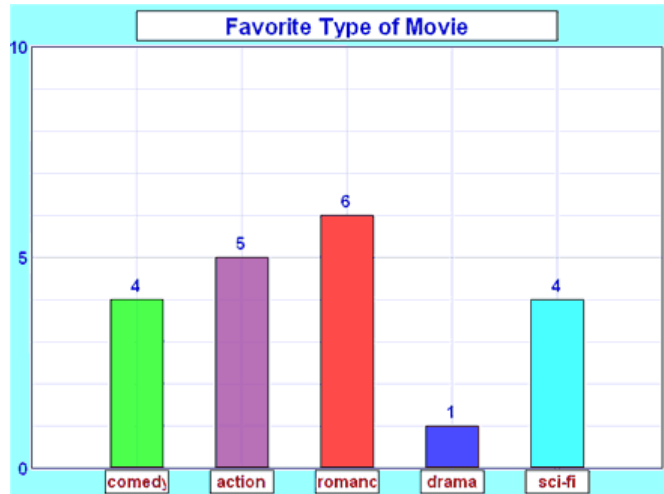
# TYPES OF GRAPHS

There are several different types of graphs used to represent each data type. (Some of these are a recap from the first lesson in this unit)

## HISTOGRAM

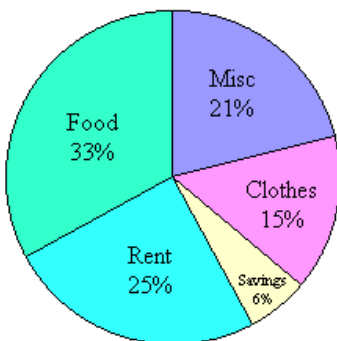


## BAR GRAPH



## CIRCLE GRAPH

Milton Family's Budget (Title)



## PICTOGRAPH



**Example #2**      Display the data in the following chart in a circle graph.

These data show 24 highschool students answers to the question:  
 "What are your plans after graduation?"

College	Work	College	College	College	Work
University	College	University	College	Work	Work
College	Work	College	University	College	College
University	Work	College	College	College	College

Fill in the following chart first:

Destination	Number of Students Tally	Number of Students Frequency	Relative Frequency (%)	Degrees ( $360^\circ \times RF$ )
College				
University				
Work				

