**3.2 Exploring Relationships between Sets**

**By the end of the lesson you will be able to:**

1. Explore what the different regions of a Venn diagram represent.



**Example 1**

In a high school, there are 65 Grade 12 students. Of these students 23 play basketball and 24 play volleyball. There are 31 students who don’t play either sport.

*How many students play both basketball and volleyball?* Use a Venn diagram to solve.



|  |  |
| --- | --- |
| Type | Number of People Who Like |
| Horror | 15 |
| Comedy | 20 |
| Neither  | 6 |

**Example 2**

Chantal asked 36 classmates what type of movies they liked, with results shown in the table. Create a Venn diagram to model the data.

How many students didn’t like only horror?

How many students like only comedy?

Assignment:

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