Intersection of Sets Lesson

A set is a group of distinct objects or data of some kind. A set can contain any kinds of data from names to numbers to places. In math, sets normally contain numbers in the form of data.



Look at the two sets below:

Many times we want to be able to compare sets of data. One form of comparison is called an intersection. An intersection is shown by the symbol \bigcap and tells the data that appears in both sets (A and B). If the intersection of Set A and B were to be written out mathematically it would appear as:

 $A \cap B$

You can think of the \bigcap symbol as the word "and" because it asks us what data appears in Set A and Set B.

Now let's evaluate both sets to find the intersection. We are looking for data that appears in both Set A and Set B.

Set A {5, 12, 9, 7} Set B {14, 6, 9, 4}

The only value that appears in both sets is 9. We would write our answer as: $A \cap B = \{9\}$