

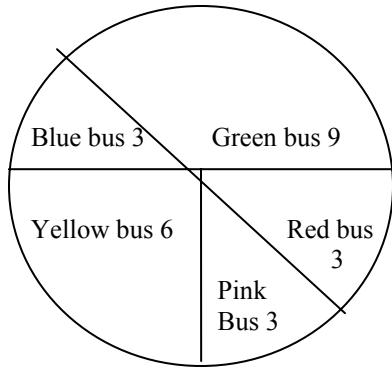
**Lesson: Circle Graphs**

**Third Grade Objective 4.01** : Collect, organize, analyze, and display data (including circle graphs and tables) to solve problems.

**Lesson**

Circle graphs can be used to show parts of a whole. An example of a good use for a circle graph is the number of students in a class (that is the whole) who ride each color school bus (each color bus rider is a part of the whole classroom).

**Mrs. Brown's Third Grade Class – Bus Riders**



From this graph, we can see that 24 students in Mrs. Brown's Third Grade class ride the bus and we can see how many ride each bus (green, blue, yellow, pink and red). We can see which bus has the most number of riders from Mrs. Brown's class, which bus has the least number of riders and which two buses have the same number of riders.

**Mr. Jones' Third Grade class conducted a survey of the types of pets in the class. There are eighteen students in his class. The students decided to include dogs, cats and fish in the survey.**

<u>Dogs</u>	<u>Cats</u>	<u>Fish</u>
Emma	Charlie	Amanda
Scott	Chris	Tammy
Maggie	Lori	Cindy
Tony	Nancy	
Dale	Josh	
Julie	Jessica	
Heather		
Nathan		
Carson		

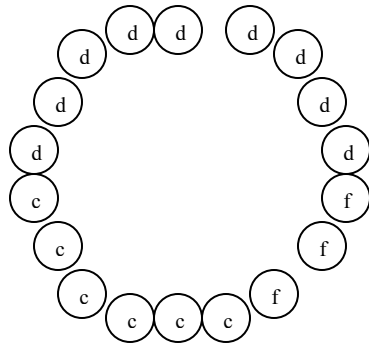
They tallied up the numbers of students with each type of pet.

Dogs ~~||||~~ ||||

Cats ~~||||~~ |

Fish |||

From this data we can make a circle graph to represent the number of students with each type of pet:



You can practice making circle graphs at:

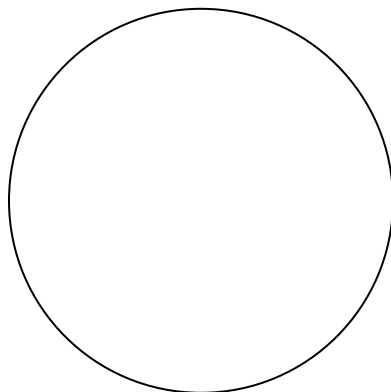
<http://illuminations.nctm.org/ActivityDetail.aspx?ID=60>

<http://nces.ed.gov/nceskids/createagraph/default.aspx?ID=1b62ea38d51a4a2eb2e65c21547228a7>

<http://www.shodor.org/interactivate/activities/CircleGraph/>

**Try these on your own!**

1. Mrs. Wells' class is having an ice cream party for all twenty-one students in the class. 10 of the students are having chocolate ice cream. 6 are having vanilla ice cream. The rest of the students are having strawberry ice cream. Create a circle graph to show how many students are having each flavor of ice cream.



2. Jacob took a survey of his classmates to find out their favorite school subject. He surveyed sixteen students. Here are the results:

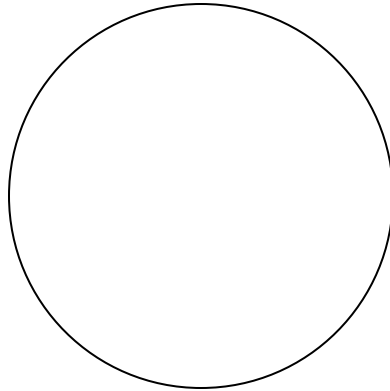
<u>Math</u>	<u>Reading</u>	<u>Science</u>
Nicole	Anna	Austin
Haley	Mark	Leslie
Bradley	Mike	Jenny
Carter	Emily	Zachary
Juan		
Sawyer		
Lilly		
Kendal		

Tally the results and make a circle graph to represent the data.

Math

Reading

Science





# Jacob's Survey

Math 8

Reading 4

Science 4

Created at <http://nces.ed.gov/nceskids/createagraph/default.aspx>

