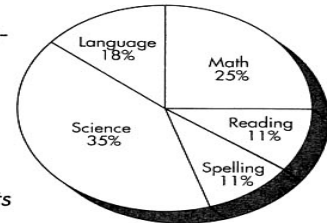# Pie Graph

A pie graph is used to show how parts are compared to a whole. The petunia experiment results would not be represented appropriately with this type of graph. However, survey results are very clearly represented using a pie graph.

A class of 28 students was surveyed, and the students were asked to name their favorite school subject. Here are the results in a pie graph.

To make this pie graph, these simple steps were followed:
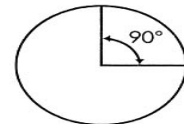
1

Survey students.

2

Calculate percentage. Divide the tally total for each subject by the total number of students surveyed.
Math $\cancel{IIII}\ II$ = 7
7/28 = .25 or 25%

3

Calculate degrees. Multiply the percent in decimal form by 360°.
.25 x 360° = 90°
Use the degrees to divide the pie circle.

The data table shows an organized way to calculate and record this information:

Subjects	No. of Students	Calculation of Decimal Fraction	Calculation of Degrees
Math	7	7/28 = .25	.25 x 360° = 90°
Reading	3	3/28 = .11	.11 x 360° = 40°
Science	10	10/28 = .35	.35 x 360° = 126°
Soc. Studies	0	0/28 = .00	0 x 360° = 0°
Language	5	5/28 = .18	.18 x 360° = 64°
Spelling	3	3/28 = .11	.11 x 360° = 40°
TOTALS	28	1.00	360°