Activity: Counting and Graphing Car Patterns From Home

Grade Level: Grades 6 - 7

Skills:

- **Collecting data and graphing results (bar graph)**
- **Calculating percent (whole number)**

General outline of activity:

- **Students will collect data by observing cars and recording their colors for a period of time at home. They will then graph their results and calculate percent of the whole for each of their results.**

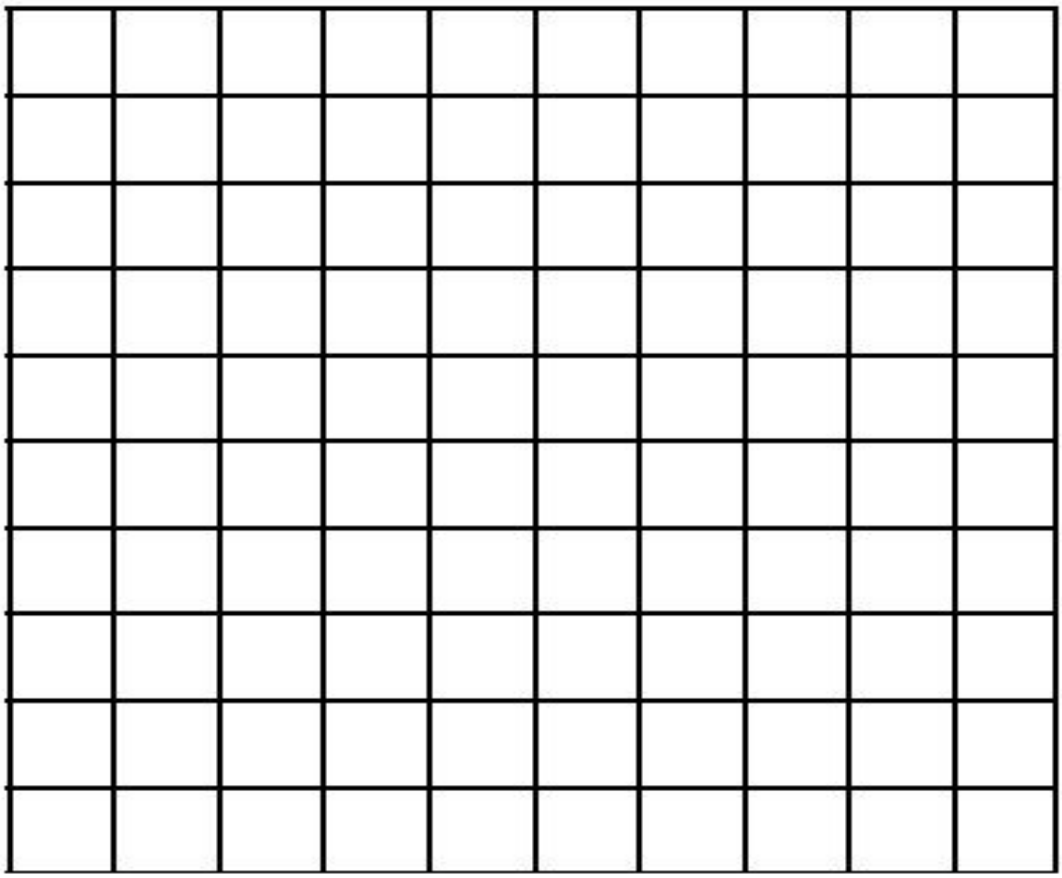
Car Graphing Activity

For this activity you'll observe the first 50 cars going by and record their colors on the tally sheet below.

Step 1: Complete the following tally table for the first 50 cars you observe:

Colour	Tally (𝍸)	Total
Red		
Blue		
Green		
Black		
Silver		
Yellow		
White		
Orange		
Brown		
Purple		

Step 2: Create a bar chart of the data on the grid below. Be sure to clearly include all titles, labels, and required information.



Step 3: Calculate the percentages of each car color you observed. Remember that each value is a ratio or fraction out of 50. These can be converted to percentages by doubling the ratio to make it out of 100 (%). See the following example:

$$\frac{7}{50} = \frac{14}{100} = 14\%$$