

# Gas Guzzlers

Name: \_\_\_\_\_

Amanda wanted to find out if there was a correlation between the age of a car and the number of miles per gallon it received on the road. She polled twelve people about the age of their car and its gas efficiency. Organize her data into a table and then create a scatter plot of the information to determine if a correlation exists.

'08: 32 mpg, '07: 25 mpg, '01: 16 mpg, '04: 24 mpg; '07: 25 mpg, '02: 18 mpg, '05: 22 mpg, 06': 23 mpg, '03: 18 mpg, '05: 21 mpg, '04: 20 mpg, and '06: 27 mpg.



1. Describe the correlation between the age of a car and its fuel efficiency (mpg).  
\_\_\_\_\_
2. Draw a 'line of best fit' for the given data.
3. Determine the equation (or rule) for the line of best fit. \_\_\_\_\_
4. Using your graph or equation, predict the mpg of a 1990 car. \_\_\_\_\_