# Fuel Efficiency Analysis

## Python Code:

import numpy as np  
  
# Sample fuel efficiency dataset (in mpg)  
fuel\_efficiency = np.array([20, 25, 30, 22, 35, 28])  
  
# 1. Calculate average fuel efficiency  
average\_mpg = np.mean(fuel\_efficiency)  
print("Average fuel efficiency:", average\_mpg, "mpg")  
  
# 2. Calculate percentage improvement between two models  
# Let's compare model at index 1 (25 mpg) and index 4 (35 mpg)  
model\_a = fuel\_efficiency[1]  
model\_b = fuel\_efficiency[4]  
  
percentage\_improvement = ((model\_b - model\_a) / model\_a) \* 100  
print("Percentage improvement from model A to B:", percentage\_improvement, "%")

## Output:

Average fuel efficiency: 26.666666666666668 mpg  
Percentage improvement from model A to B: 40.0 %