

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



# SPEED CALCULATIONS

The races we have just conducted were timed in FEET PER SECOND. Now we can take our times and convert them into MILES PER HOUR. This will allow us to see how fast our dragsters would be going in real life. Follow these simple steps, to convert feet per second into miles per hour.

1. Write down your time in seconds. TIME IN SECONDS \_\_\_\_\_

2. Divide the length of the track (65 feet) by your race time. This will give you how many feet per second your car traveled.

$$\text{time } \overline{) 65}$$

3. Multiply that number (feet per second) times 60. This will give you feet per minute. FEET PER MINUTE \_\_\_\_\_

4. Multiply that number (feet per minute) times 60. This will give you feet per hour. FEET PER HOUR \_\_\_\_\_

5. Divide that number (feet per hour) by the number of feet in a mile (5,280). This will give you miles per hour (M.P.H.). MILES PER HOUR \_\_\_\_\_

6. Weigh your car on the scale and record the weight in GRAMS. WEIGHT IN GRAMS \_\_\_\_\_

7. Test your car for aerodynamics in the Wind Tunnel and record the resistance in GRAMS. AERODYNAMICS \_\_\_\_\_