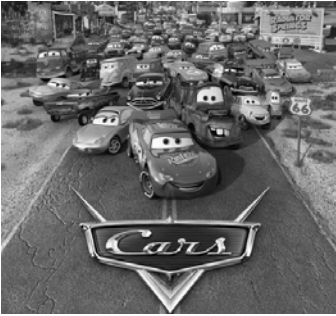


# MiSP Motion Worksheet #1

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

Date: \_\_\_\_\_

## Cars



### Introduction:

Speed is distance traveled per unit of time. The basic metric unit for distance is \_\_\_\_\_. The basic metric unit for time is \_\_\_\_\_. When measuring the speed of an object, the instruments that are needed are \_\_\_\_\_ for distance and a \_\_\_\_\_ for time. In the data table below, kilometers are used for \_\_\_\_\_ and minutes are used for \_\_\_\_\_ to calculate the speed of a car.

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$



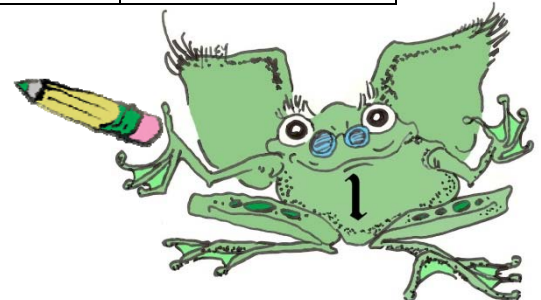
Car 1: Fillmore

Time (min)	Distance (km)	Speed (km/min)
10	10	
20	20	
30	30	
40	40	
50	50	



Car 2: Lightning McQueen

Time (min)	Distance (km)	Speed (km/min)
10	20	
20	40	
30	60	
40	80	
50	100	





Car 3: Luigi

Time (min)	Distance (km)	Speed (km/min)
10	15	
20	30	
30	45	
40	60	
50	75	

**Questions:**

1. Each car is traveling at a \_\_\_\_\_ speed.
2. Calculate the speed of the following items. Show all your work!

A bus travels 120 miles in 2 hours.	A marble moves 12 meters in 28 seconds.	A student sleds 29.8 meters in 3 minutes.	A dog walks at a speed of 5ft/sec. How many feet will he have walked in 3 seconds?
A person walks 5 kilometers in 30 minutes.	The speed of water traveling down a pipe is 4 cm/sec. How many seconds will it take the water to flow 10 cm?	A subway takes 8 minutes to travel 3.8 miles.	A skier takes 54 seconds to travel down a hill of 29 meters.

