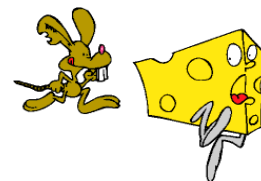


Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Physics

Worksheet



# Mouse Trap Racer

**Directions:** Determine the average velocity, acceleration and force from the data below.

Ryan built a mouse trap racer for his physics class and needs to determine the velocity, acceleration and force. So, he measures out 5.50 meters and performs 10 time trials. Ryan recorded his data in the table below.

Trial	Mass (g)	Distance (m)	Time (s)
1	183.2	5.50	7.41
2	183.2	5.50	7.38
3	183.2	5.50	7.91
4	183.2	5.50	8.36
5	183.2	5.50	7.02
6	183.2	5.50	7.59
7	183.2	5.50	7.42
8	183.2	5.50	7.00
9	183.2	5.50	8.69
10	183.2	5.50	7.39
AVE			

## Calculations

\_\_\_\_\_ velocity

\_\_\_\_\_ acceleration

\_\_\_\_\_ force

**"The time is always right to do what is right." -- Martin Luther King, Jr.**