

## 17-1 Dominoes Lab - Find the Factors of Speed

I think speed depends on \_\_\_\_\_.

### **STATION 1**

Set up 25 dominoes in a straight line that are 2 cm apart, measuring from front of domino to the front of the next domino. Measure the length of the dominoes from the front of the first domino to the end of the last domino. \_\_\_\_\_  
(Use cm)

Record how long it take for the dominoes to fall. Do this 3 times.

Time of 1st run: \_\_\_\_\_ (In seconds)

Time of 2nd run: \_\_\_\_\_ (In seconds)

Time of 3rd run: \_\_\_\_\_ (In seconds)

What is the average time for the 3 runs? \_\_\_\_\_

### **STATION 2**

Set up 25 dominoes in a straight line that are 3 cm apart, measuring from front of domino to the front of the next domino. Measure the length of the dominoes from the front of the first domino to the end of the last domino. \_\_\_\_\_  
(Use cm)

Record how long it take for the dominoes to fall. Do this 3 times.

Time of 1st run: \_\_\_\_\_ (In seconds)

Time of 2nd run: \_\_\_\_\_ (In seconds)

Time of 3rd run: \_\_\_\_\_ (In seconds)

What is the average time for the 3 runs? \_\_\_\_\_

### **STATION 3**

Set up 25 dominoes in a straight line that are 4 cm apart, measuring from front of domino to the front of the next domino. Measure the length of the dominoes from the front of the first domino to the end of the last domino. \_\_\_\_\_  
(Use cm)

Record how long it take for the dominoes to fall. Do this 3 times.

Time of 1st run: \_\_\_\_\_ (In seconds)

Time of 2nd run: \_\_\_\_\_ (In seconds)

Time of 3rd run: \_\_\_\_\_ (In seconds)

What is the average time for the 3 runs? \_\_\_\_\_

### **Data Analysis**

What is the formula for speed? \_\_\_\_\_

On the back of this sheet calculate the speed for each of the 3 distances the dominoes traveled. Use the formula distance = rate \* time.