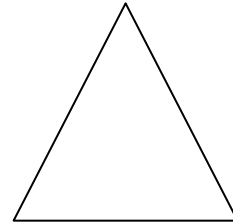


Name: _____ Date: _____ Period: _____

Acceleration

- Galileo developed the concept of _____ in his experiments with inclined planes.
- Galileo defined acceleration as the rate of change of _____.
- Acceleration = _____ a = _____



- There are three ways a velocity can change
 - 1) Increase velocity (_____)
 - 2) Decrease velocity (_____)
 - 3) Change directions (_____)
- All three of these changes in velocity are forms of _____

1. A car's speed increases from **30 km/hr** to **60 km/hr** in **5 sec**. What is its **acceleration**?

2. A runner starts **from rest** and reaches a speed of **6 m/s** in **2 sec**. What is his **acceleration**?

3. A car starting **from rest** reaches a speed of **40 km/hr** in **2 sec**. What is its **acceleration**?

4. A car traveling **60 km/hr** stops in **3 sec**. What is its **deceleration**? (Negative acceleration)

5. A car starts **from rest** and reaches a speed of **125 km/hr** in **5 sec**. What is its **acceleration**?