Name:		
I Vallic.		

Date:		

Hour:

## **Linear Motion Problems Checkpoint**

$$v = \underline{d}$$
  $t = \underline{d}$   $d = vt$   $\Delta v = v_r - v_s$   $a = \underline{\Delta v}$   $v = at$   $v = gt$   $d = \frac{1}{2}gt^2$   $t = \sqrt{\frac{2d}{g}}$ 

- 1. What is the speed of a jet plane that travels 528 meters in 4 seconds?
- 2. How many seconds will it take for a satellite to travel 450 m at a rate of 120 m/s?
- 3. A meteoroid changed velocity from 1.0 km/s to 2.0 km/s in 0.1 seconds. What is the acceleration of the meteoroid?
- 4. A ball is dropped from the top of the bleachers and it takes 2.5 s to reach the ground. How high are the bleachers?
- 5. You drop your pencil from your desk, which is 1.5 m above the floor. How long does it take for the pencil to hit the floor?