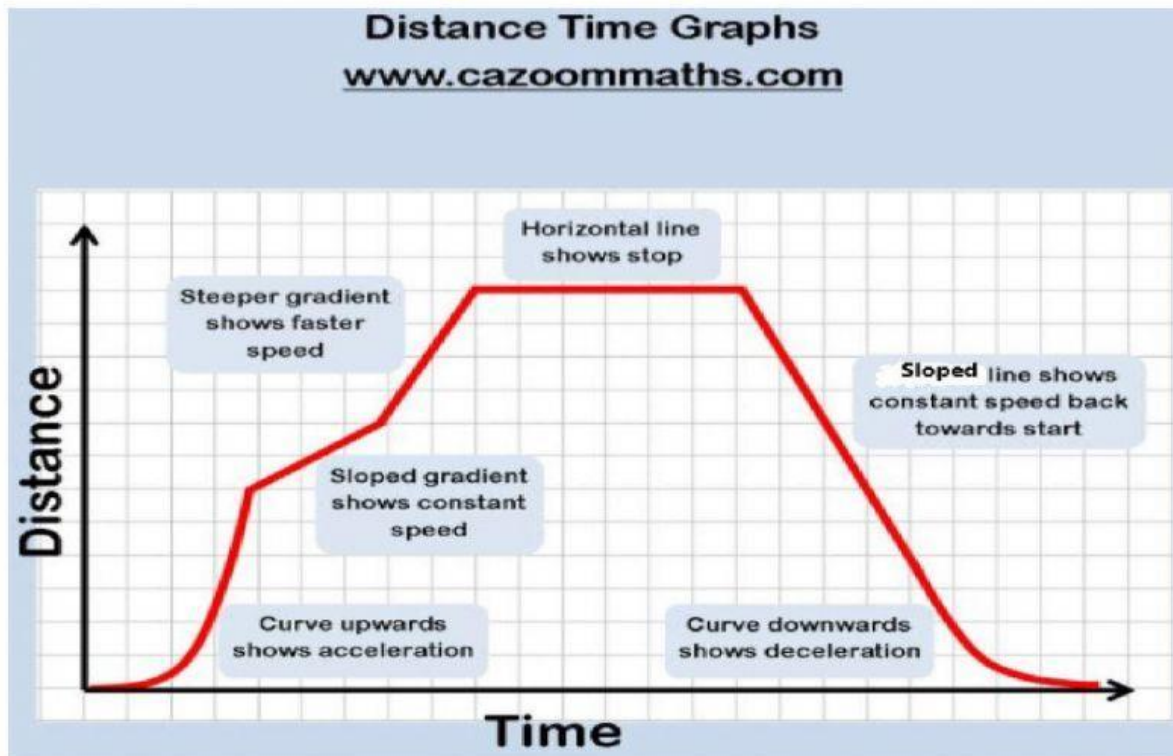


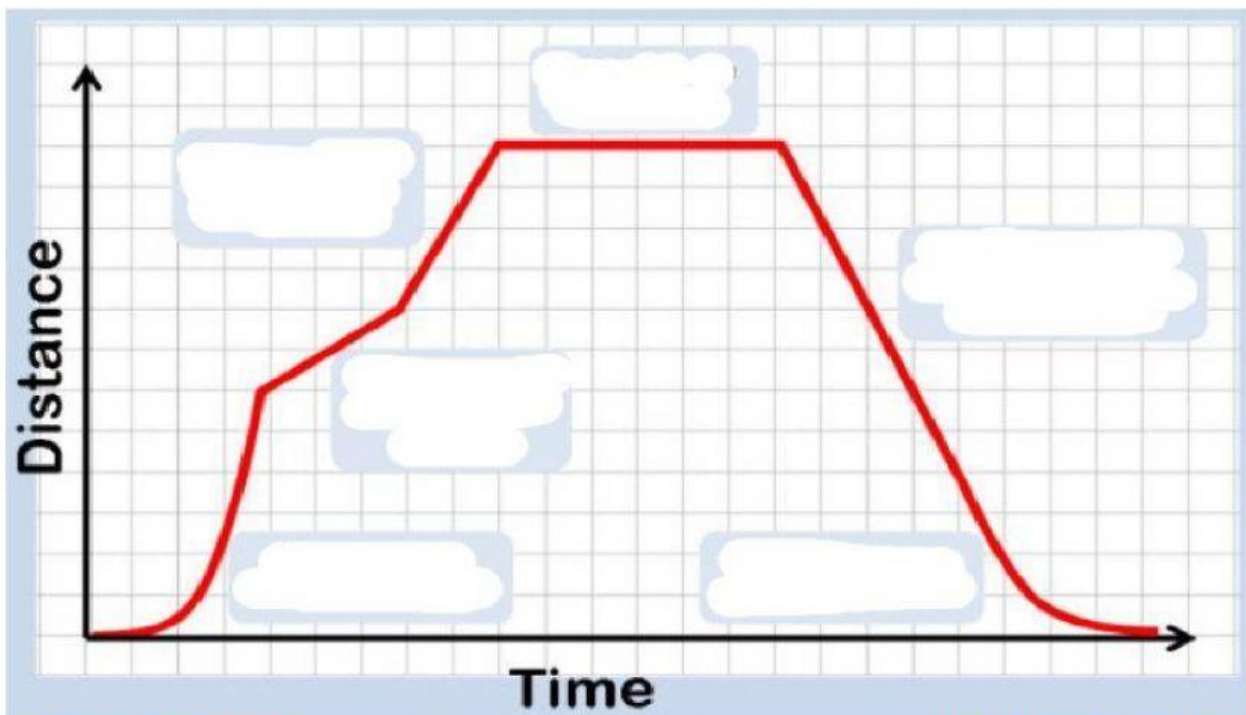
## Interpreting Motion Graphs



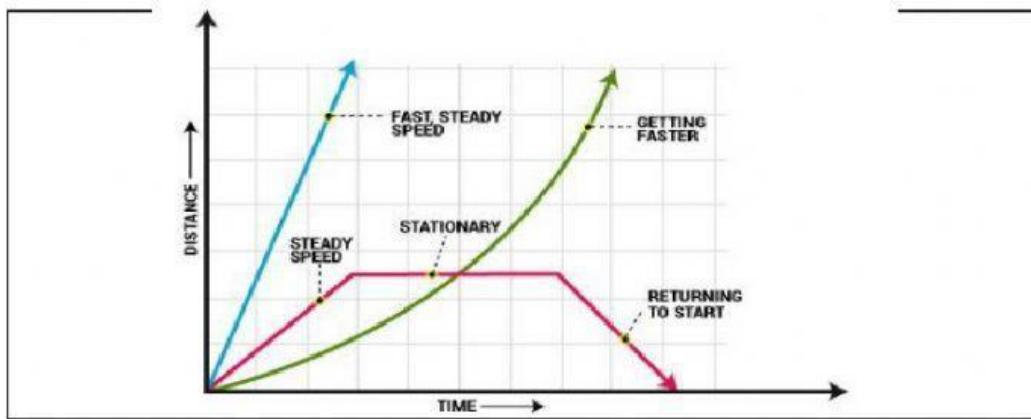
### Part I

#### interpreting graphs

Use the graph above to complete the missing information inside the boxes



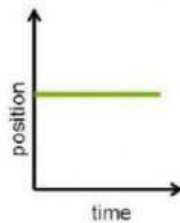
## Part II



### Multiple Choice

1. This position vs time graph (speed) represents

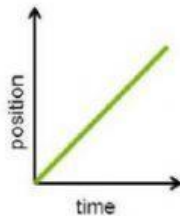
answer



a) Object is not moving is stationary   b) object is speeding   c) constant speed

2. This position vs time graph (speed) represents

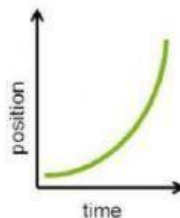
answer



a) Constant speed or steady speed   b) accelerating   c) not moving

3. This position vs time graph (speed) represents

answer

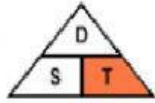


a) Rest   b) accelerating/ getting faster up   c) slowing down

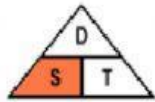
Use this diagram to complete questions 7, 8, and 9.



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



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



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

7) What is the formula to find the **Distance**?

$$\text{Distance} = \boxed{\phantom{000}} \times \boxed{\phantom{000}}$$

8) What is the formula to find the **Time** of travel?

$$\text{Time} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

9) What is the formula to find the **Speed**?

$$\text{Speed} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

10)

You drove a **distance of 48 miles** and the **time you took was 6 hours**.

What was your speed?

**d = 48 miles**

**t = 6 hours**

$$S = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \boxed{\phantom{000}}$$