VELOCITY-TIME GRAPHS

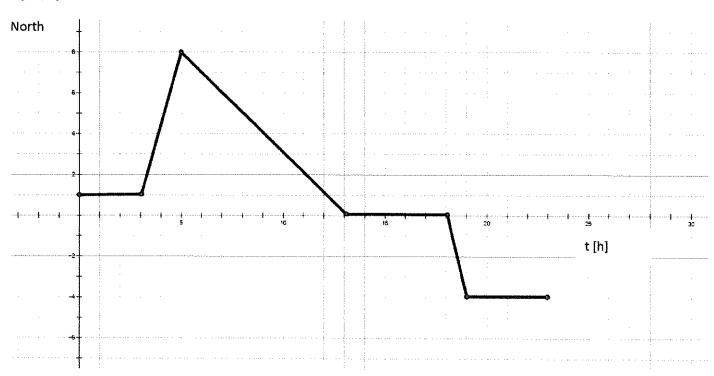
and	on the vertical axis.	
> The slope of a	velocity-time graph gives the	ha valocity timo graph
>	of an object cannot be read off t	Information a velocity-time graph can gives:
		1, direction of the motion
[km/h]	<u>Velocity-Time Graph</u>	
ast		- above the time axis =
6		- below the time axis =
4		2. Magnitude of velocity = number read off the vertical axis.
2		3. Time interval during which motion is uniform = line is horizontal (= flat)
-2	5 10	4. Time interval during which motion is t [h] NONUNIFORM = line has either positive or negative slope
4		5. Time interval during which an object does not move = line coincides with the time axis
		6. Time when the object is at rest = graph crosses the time axis.
Assuming that one so the following questic		e time axis and 1 km/h [E] on the velocity axis, answer
1. Is the object ever a	at rest? WHY or WHY NOT?	
2. When does the ob	ject move at constant velocity?	
3. What is the magni	tude and direction of this constant velocity	
4. When does the ob	oject move west?	
5. What is the object	t's initial position?	
6. What is the object	t's final position?	
7. What is the object	t's acceleration over the first 4 h?	

9. What is the object's acceleration from $14h - 17h \frac{2}{3}$

Velocity-Time Graph

v [km/h]

12. Do you have any questions?



Assuming that one square on the grid above means 1 hour on the time axis and 1 km/h [N] on the velocity axis, answer the following questions:

1. Is the object ever at rest? When or WHY NOT?			
2. When does the object move at constant velocity?	and		
3. What is the magnitude and direction of these constant velocities?	and		
3. When does the object move South?			
4. When does the object move north?	W		
5. What is the object's initial position?			
6. What is the object's final position?			
7. What is the object's acceleration over the first 3 h?			
8. What is the object's acceleration from 5h to 13h?			
9. What is the object's acceleration from 19h $+6.23 h^{\frac{2}{3}}$			
10. What is the object's acceleration between 13 and 18 h?			
11. What is the object's acceleration from 3h to 5h?			