## **Speed and Acceleration**

1.	Does the speedometer of	a car read average speed or instantaneous speed?	
		ow do you know?	
	-		
_	45.1	and the second s	
2.	-	r car reads a constant speed of 40km/hr, can you say the car has a constant veloci	ity :
	Ex	xplain your answer.	
3.	What two controls on a car cause a change in speed?		
		***************************************	
1	What control causes a cha	ange in velocity?	
4.	mge iii velocity:		
-	\\\\hat is the assolaration s	of a car that travels at a constant speed?	
٥.	What is the acceleration of	a car that travels at a constant speedr	
<b>PART 2:</b>	C		
	CALCULATIONS		
		o drive to school. Her route is 16 km long. What is Serina's average speed on her	
		o drive to school. Her route is 16 km long. What is Serina's average speed on her	
	It takes Serina 0.25 hour t	o drive to school. Her route is 16 km long. What is Serina's average speed on her	
	It takes Serina 0.25 hour t drive to school?		
	It takes Serina 0.25 hour t drive to school?		
	It takes Serina 0.25 hour t drive to school?		
	It takes Serina 0.25 hour t drive to school?		
	It takes Serina 0.25 hour t drive to school?		
	It takes Serina 0.25 hour t drive to school? GIVEN:		
	It takes Serina 0.25 hour t drive to school?	WORK:	
	It takes Serina 0.25 hour t drive to school? GIVEN:		
	It takes Serina 0.25 hour t drive to school? GIVEN:	WORK:	
	It takes Serina 0.25 hour t drive to school? GIVEN:	WORK:	
	It takes Serina 0.25 hour t drive to school? GIVEN:	WORK:	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:	ANSWER:	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle an average speed of 13.0	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled m/s. How long did the disk remain in the air?	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle an average speed of 13.0	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled m/s. How long did the disk remain in the air?	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle an average speed of 13.0	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled m/s. How long did the disk remain in the air?	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle an average speed of 13.0	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled m/s. How long did the disk remain in the air?	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle an average speed of 13.0	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled m/s. How long did the disk remain in the air?	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle an average speed of 13.0	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled m/s. How long did the disk remain in the air?	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle an average speed of 13.0  GIVEN:	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled m/s. How long did the disk remain in the air?	
6.	It takes Serina 0.25 hour to drive to school?  GIVEN:  FORMULA:  In a competition, an athle an average speed of 13.0	ANSWER:  te threw a flying disk 139 meters through the air. While in flight, the disk traveled m/s. How long did the disk remain in the air?  WORK:	

	A runner covers the last straight stretch of a race in 4 s. During that time, he speeds up from 5 m/s to 9 m/s.  What is the runner's acceleration in this part of the race?			
	GIVEN:	WORK:		
	FORMULA:			
		ANSWER:		
c		on, your voice travels at the speed of sound (340 m/s) to the b n echo. How deep is the Grand Canyon at a spot where you ca		
-	GIVEN:	WORK:		
	FORMULA:	ANSWER:		
	Falling objects drop with an avera	age acceleration of 9.8 m/s <sup>2</sup> . If an object falls from a tall build of 49 m/s?	ing, how long will	
	GIVEN:	WORK:		
	TONIVOLA.	ANSWER:		
l:	losh rolled a bowling ball down a ane and was traveling at a speed the ball going when it left Tim's h	lane in 2.5 s. The ball traveled at a constant acceleration of 1 of 7.6 m/s by the time it reached the pins at the end of the la hand?	8 m/s² down the one. How fast was	
	GIVEN:	WORK:		
	FORMULA:			
	PORIVIOUA.	ANSWER:		