M. Puranen - Science 20F

Date _____

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Work Sheets following Lesson 4 and lesson 5

Assignement 2

Displacement, Velocity

 For each of the variables, find the missing information and fill in the blank spaces in the table. Use a "+" sign to indicate forward movement and a "-" sign to indicate backwards movement. (5)

Velocity of an Object in Motion					
Change in position (cm)	Change in time (s)	Velocity (cm/s)			
+ 40 cm	5 s				
+ 25 cm	10 s				
	10 s	-5 cm/s			
-150cm		-15 cm/s			
	52 s	10 cm/s			

 The pictures below were taken by a high sped camera set up along the highway. Each car was photographed five times at one second intervals. (5)
Diagram A

Diagram B



- a) Which diagram shows the car moving at a faster speed.
- b) Which diagram shows the car moving at a slower speed.
- c) Are the cars moving at constant motion? (Yes or no, or only 1 of them or none of them)

Position at	Time 0s	Time 1s	Time 2s	Time 3s	Time 4s
Car "A"	2 cm	4 cm	6 cm	8 cm	10 cm
Car "B"	0 cm	3 cm	6 cm	9 cm	12 cm

- d) Calculate the velocity of Diagram A:
- e) Calculate the velocity of Diagram B:

Using the word bank, place the words that coincide with the Car-Motion diagrams below. (Not sure, -> Check your notes) (5)



 Using the word bank, place the words that coincide with the Car-Motion diagrams below. (Not sure, -> Check your notes) (5)



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