LG EG

DATE: _____

Teacher: **Sergey**

NAME _____

GROUP _____F1_____

Lesson topic: Speed and velocity
Science Homework

PHYSICS

1. Complete the definitions using the words in the word bank.

Speed is the rate at which an object _____. It is a _____.

Velocity is the rate at which an object _____its_____. It is a_____.

changes	*moves*	*covers*	*position*	*distance*
	vector	*scalar*	*displacement*	

2. Drag and drop the symbols to complete the diagram showing the relationships between distance, time and speed. Complete the formula.

   The SI unit of speed is [ ]

   v
   d
   t
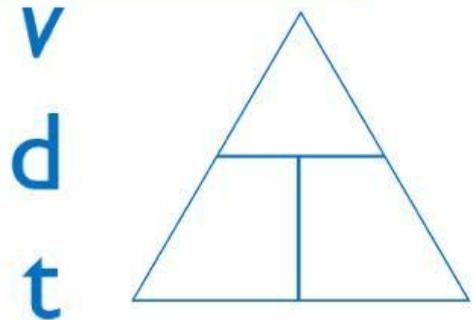
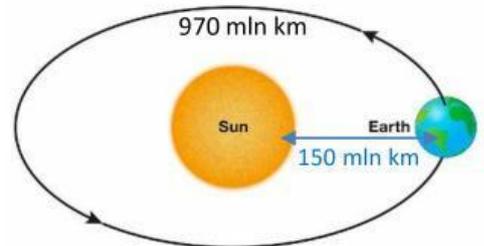   **Speed =** _____

3. Solve the tasks using the formula above.

a) How fast does a person on Earth moves with it around the Sun?
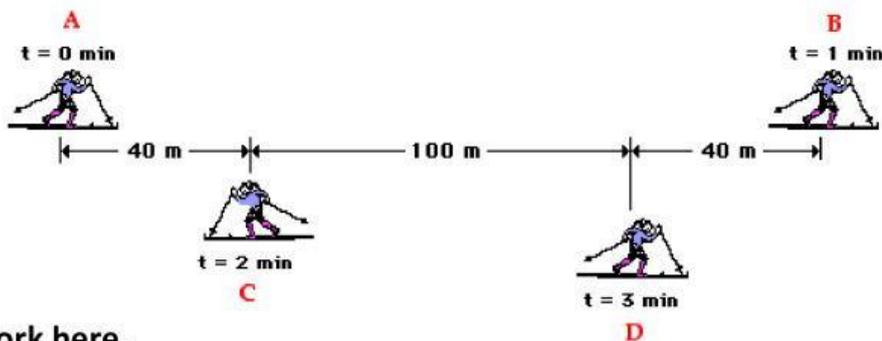Use the diagram to find the distance needed.

Time, days: [ ]

Distance, km: [ ]

Speed, km/day: [ ]   **Speed, m/s:** [ ]

970 mln km
Sun   Earth
150 mln km

b) Find the speed and the velocity of the skier using the diagram below. Show your work!
Write final answers using SI units!

A
t = 0 min

B
t = 1 min

|← 40 m →|← 100 m →|← 40 m →|

t = 2 min
C

t = 3 min
D

Show your work here.

Distance =

Time =

Speed =

Velocity =

Final answer

Average speed: [ ]

Average velocity: [ ]