

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 _____.

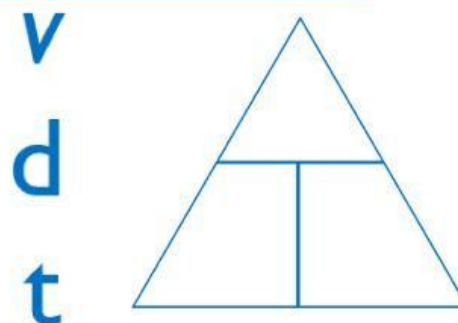
Velocity is the rate at which an object _____ its _____. It is a _____.

<i>changes</i>	<i>moves</i>	<i>covers</i>	<i>position</i>	<i>distance</i>
	<i>vector</i>	<i>scalar</i>	<i>displacement</i>	

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

Speed = _____



3. Solve the tasks using the formula above.

a) How fast does a person on Earth moves with it around the Sun?

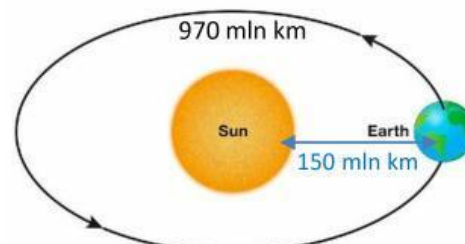
Use the diagram to find the distance needed.

Time, days:

Distance, km:

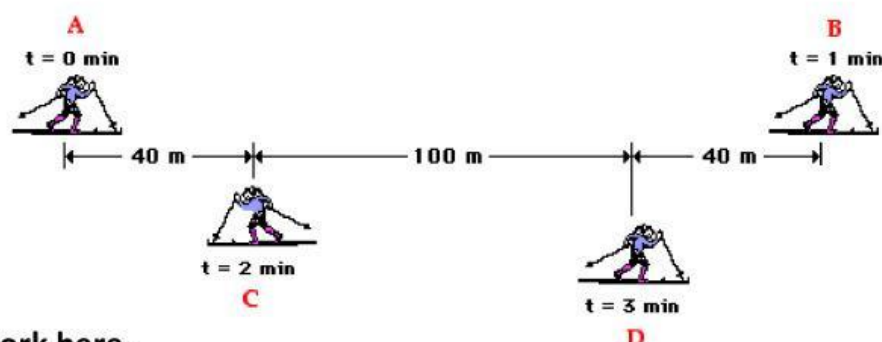
Speed, km/day:

Speed, m/s:



b) Find the speed and the velocity of the skier using the diagram below. Show your work!

Write final answers using SI units!



Show your work here.

Distance =

Time =

Speed =

Velocity =

Final answer

Average speed:

Average velocity: