Feb 20, 2019

Notes on Speed, Distance and Time Velocity Word Problems



Warm-Up

When glass breaks, the cracks move at speed of more than 4500 km/h



Constant Speed

the distance and time increased or decreases at an equal rate: e/4=5, 10,15

Instantaneous Speed

the speed@ a particular moment or instant i.e/ at 5s, at a stop sign.

Average Speed (Vav)

total distance divided by the total time. $v = \underline{\Delta d} = \underline{d_2 - d_1}$

$$\Delta t$$
 $t_2 - t_1$

Example 1: Jenny skates to school a distance of 4.5km. Her journey takes 0.62 h. What is her average speed during the trip?

Step 1:

Write down what you know on the left side with symbols and value: As well write what you want to find.

v=

d= 4.5km

t = 0.62h

Step 2 :Determine if you need to convert units. If so convert into matching units

Step 3: Use the formula to solve

Step 4: Write a Sentence

Jenny skates an average speed of 7.3km/h

Example 2:

Josh is trying to find his average speed when riding his bike. He travels a distance of 45 km and it takes him 139 min, including slowing down for climbing hills. What is his average speed in km/h?

Step 1:

Write down what you know on the left side with symbols and values. As well write what you want to find.

Determine if you need to convert units. If so convert into matching units

Step 3: Use the formula to solve

Step 4: Write a Sentence

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