

Uniform Motion

travelling at a constant
Speed.

0 acceleration

Speed:

how fast an object
is moving

$$\text{m/s}$$

Instantaneous Speed

speed something is travelling
at a particular instant.

Average Speed

$$\frac{\text{distance}}{\text{time}}$$

Constant Speed

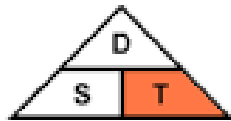
0 Acceleration

Speed and Velocity Notes

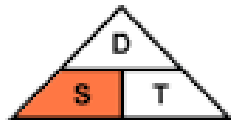
Velocity=displacement/time



$$\text{Distance} = \text{Speed} \times \text{Time}$$



$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$



$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

Average velocity:
$$\frac{(\text{Final velocity} - \text{initial velocity})}{(\text{final time} - \text{initial time})}$$

Meghan is trying to predict the time required to ride her bike to Elrose. She knows the distance is 43km and she can average 20.0km/h.

Predict how long the trip will take.

Speed and Velocity Notes