SPEED

Name	Number	Class	Group	Career

SPEED

TARGETS

The grade 5 English science unit, Movement of objects, meets the academic content standards set in the Korean curriculum, which state students should:

A. Understand an object's movement as positional changes over time and understand an objects speed qualitatively by observing a moving object
B. Be able to compare the speed of objects by measuring the time it takes for the object to move over a certain distance
C. Be able to compare the speed of objects by measuring the distance the object moves withing a given time
D. Be able to calculate an objects speed by measuring the distance it moves and the time required.

SPEED

Compare	비교하다 比較	To judge one thing in relation to another in order to see the similarities and differences.
Dangerous	위험한 危険	Likely to cause harm or injury; not safe; risky.
Describe	설명하다 説明	To tell something so that your listener gets an understanding of it.
Distance	거리 距離	The space between two places.
Example	예 例	You use **For example** to help explain what you are saying or to show that it is true.
Kill	죽이다 殺す	To cause the death of a person, animal or living thing.

SPEED

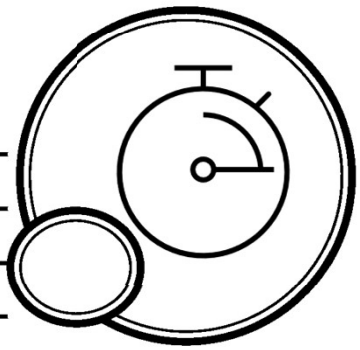
Kilometer	킬로미터	キロメートル	A unit of length in the metric system equal to 1000 meters.
Measure	측정하다	測定	To find out the size of something.
Period	기간	期	A length of time.
Position	위치	位置	The place where something is located.
Speed	속도	スピード / 速度	The rate at which someone or something moves.
Unit	단위	単位	An amount used as a standard of measurement.

VOCABULARY 1

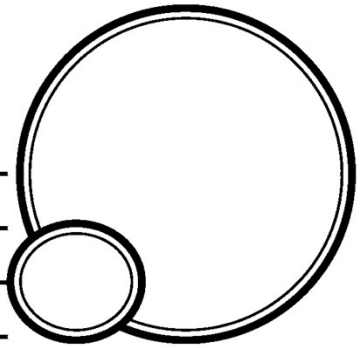
Definition is the green star.

My sentence is the blue star.

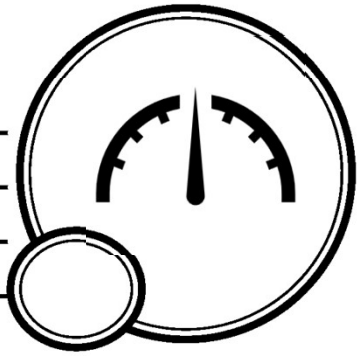
Period



Position

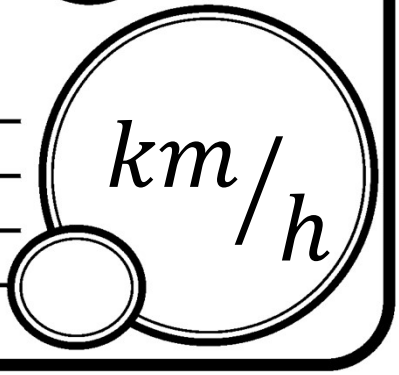


Speed



Fast

Unit



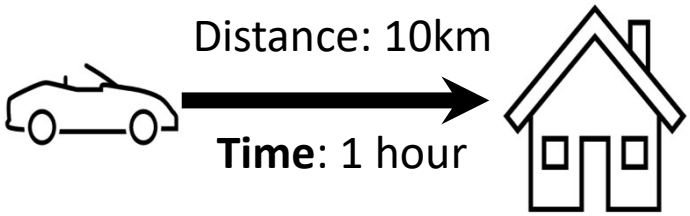
Speed

Reading

Speed is the measure of distance over time. It is written as:

$\frac{Distance}{Time}$: ${}^{km}/_{hr}$ or ${}^{m}/_{s}$

When you drive in a car, you normally move at ${}^{km}/_{hr}$



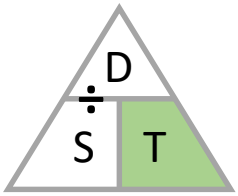
Speed = 10 $\frac{km}{hr}$

Distance:
Distance is the measure of how far we travel.
It is written in cm, m and km

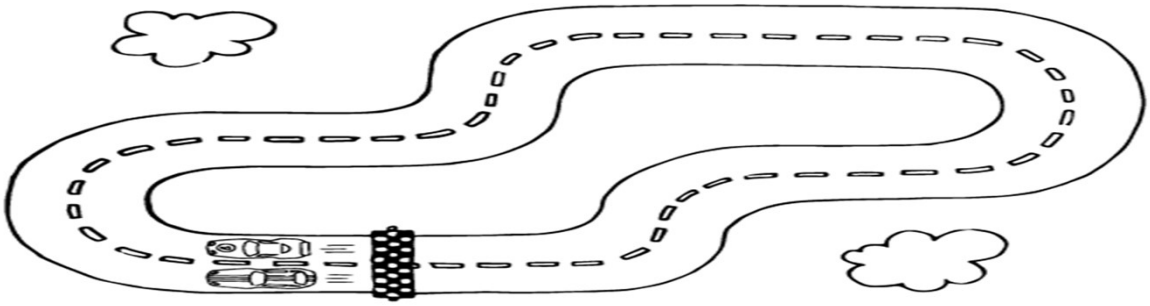
Time:
Time is the measure of how long it takes to move somewhere.
It is written in sec, min and hr.

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

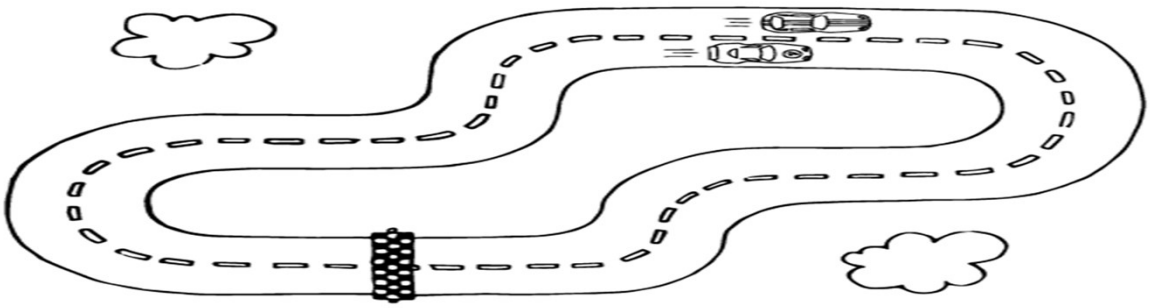
$$T = \frac{D}{S}$$



You can see that things move if their position changes, over a period of **time**. If something changes position every second, then that thing has a speed.
This movement can be seen even in pictures.
Take a look at the race cars on the track below↓.



Start.



5 Seconds later.

Speed

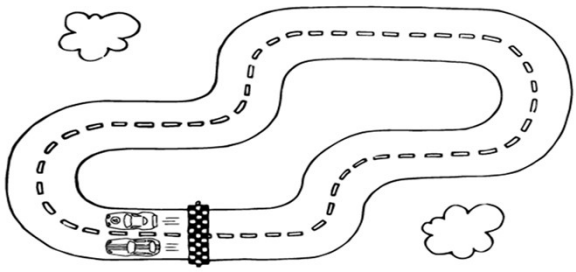
Assignment

How can you describe speed?

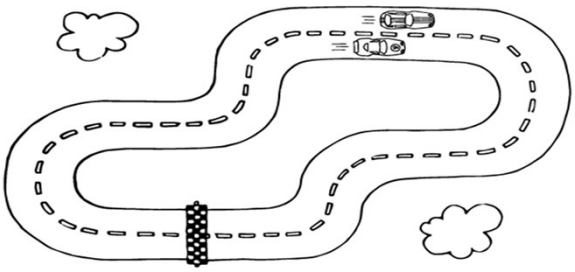
_____

Which of the 2 pictures is faster?(colour the pictures).

Racetrack 1.

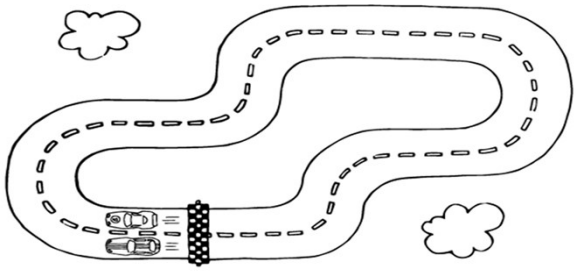


Start

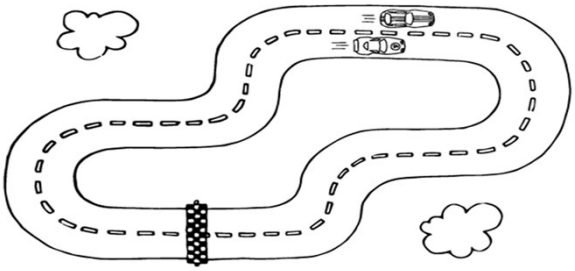


3 Seconds later

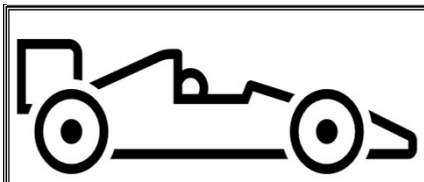
Racetrack 2.



Start



8 Seconds later



SPEED

ASSIGNMENT

Sanghoo is driving to school. He drives 300km and he is driving 150 $^{km}/_{hr}$. How long does it take for Sanghoo to go to school

Time ?	Distance _____	Speed _____

Time = Distance _____ ÷ speed _____ = _____ hr

Hajin is running to school. She runs 1km and she is running 15 $^{km}/_{hr}$. How long does it take for Hajin to go to school

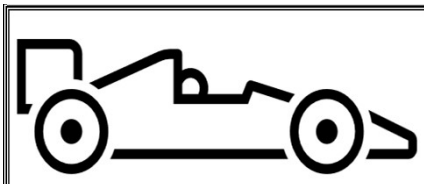
Time ?	Distance _____	Speed _____

Time = Distance _____ ÷ Speed _____ = _____ hr

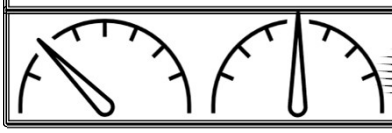
Benjamin is biking to school. He bikes 2km and he is biking 30 $^{km}/_{hr}$. How long does it take for Benjamin to go to school

Time ?	Distance _____	Speed _____

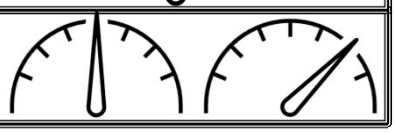
Time = Distance _____ ÷ Speed _____ = _____ hr



SPEED



OBSERVATION



Write down how fast your car drove in the given distance.			
Name	**Distance**	**Time**	**Speed**
	5m		
	5m		
	5m		
	5m		
	5m		

Who was the fastest in your group? How fast did their car drive?

_____ _____ $^{m}/_{s}$

Who was the fastest in the class? How fast did their car drive?

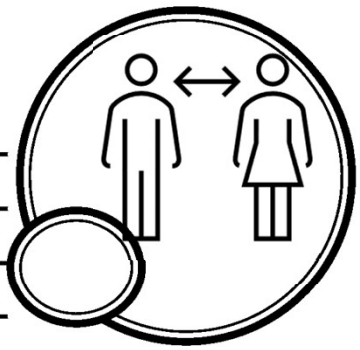
_____ _____ $^{m}/_{s}$

VOCABULARY 2

Definition is the green star.

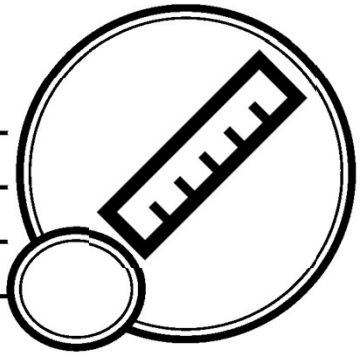
My sentence is the blue star.

Distance



Position

Measure



Speed

Unit

m/s

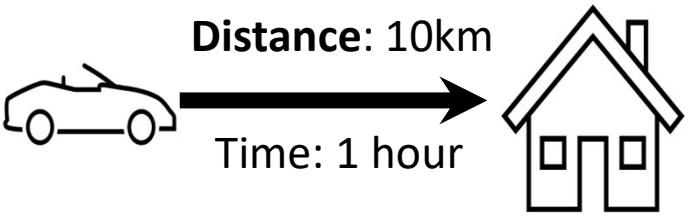
SPEED

READING

Speed is the measure of distance over time. It is written as:

$\frac{Distance}{Time}$: $^{km}/_{hr}$ or $^{m}/_{s}$

When you drive in a car, you normally move at $^{km}/_{hr}$



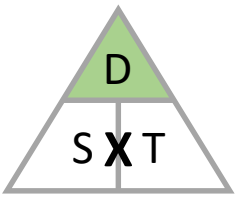
Speed = 10 $\frac{km}{hr}$

Distance:
Distance is the measure of how far we travel.
It is written in cm, m and km

Time:
Time is the measure of how long it takes to move somewhere.
It is written in sec, min and hr.

$$Distance = Speed\ x\ time$$

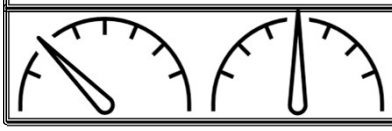
D = S x T



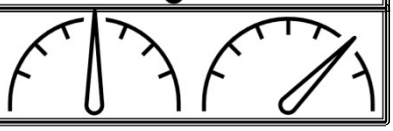
Distance is how far we moves. Last week we talked about something having a speed if it changed its **position** over a period of time. This week we will focus on the **Position**.

Position is something changing from where something was to where it is. Moving 1 kilometer, 1 meter or even 1 centimeter, means changing your position

Speed

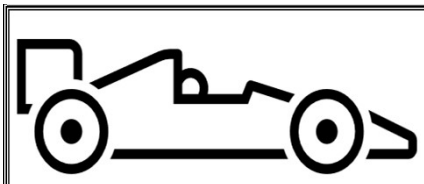


Assignment



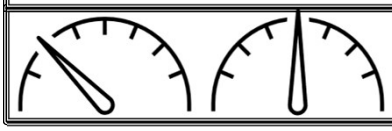
One square is 1 square Kilometer $1km^2$.
Draw a line that is 9km long

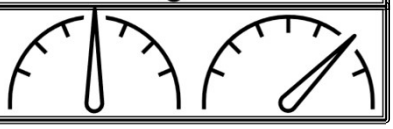
One square is 1 square meter $1m^2$.
Draw a line that is 20m long



SPEED

ASSIGNMENT





Jiu is driving to school. Jiu drives for 3 hours at a speed of 50 $^{km}/_{hr}$.
How far will Jiu get?

Distance ?	Speed _____	Time _____

Distance = speed _____ **X** time _____ = _____ km

Benjamin is biking home. He bikes for 30 minutes at a speed of 15 $^{km}/_{hr}$.
How far will Benjamin get?

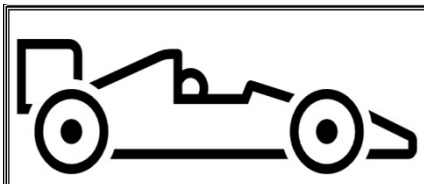
Distance ?	Speed _____	Time _____

Distance = speed _____ **X** time _____ = _____ km

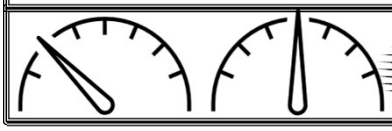
Shu is running to school. Shu runs for 15 hours at a speed of 10 $^{km}/_{hr}$.
How far will he get?

Distance ?	Speed _____	Time _____

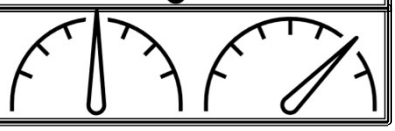
Distance = speed _____ **X** time _____ = _____ km



SPEED



OBSERVATION



Write down how fast you biked in the given time.			
Name	**Distance**	**Time**	**Speed**
		6 minutes	
		6 minutes	
		6 minutes	
		6 minutes	
		6 minutes	

Who was the fastest in your group? How fast did they bike?

_____ _____ $^{km}/_{hr}$

Who was the fastest in your class? How fast did they bike?

_____ _____ $^{km}/_{hr}$

VOCABULARY 3

Definition is the green star.

My sentence is the blue star.

Distance

Kill

Speed

Measure

Dangerous

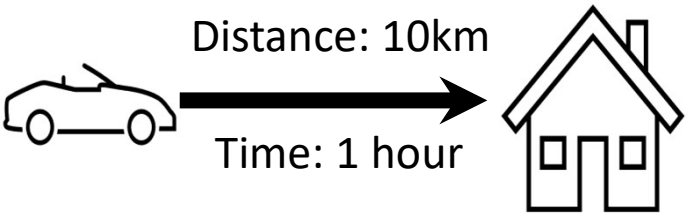
SPEED

READING

Speed is the measure of distance over time. It is written as:

$\frac{Distance}{Time}$: ${}^{km}/_{hr}$ or ${}^{m}/_{s}$

When you drive in a car, you normally move at ${}^{km}/_{hr}$



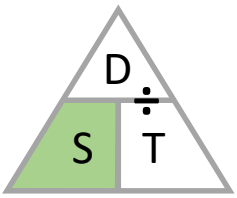
Speed = 10 $\frac{km}{hr}$

Distance:
Distance is the measure of how far we travel.
It is written in cm, m and km

Time:
Time is the measure of how long it takes to move somewhere.
It is written in sec, min and hr.

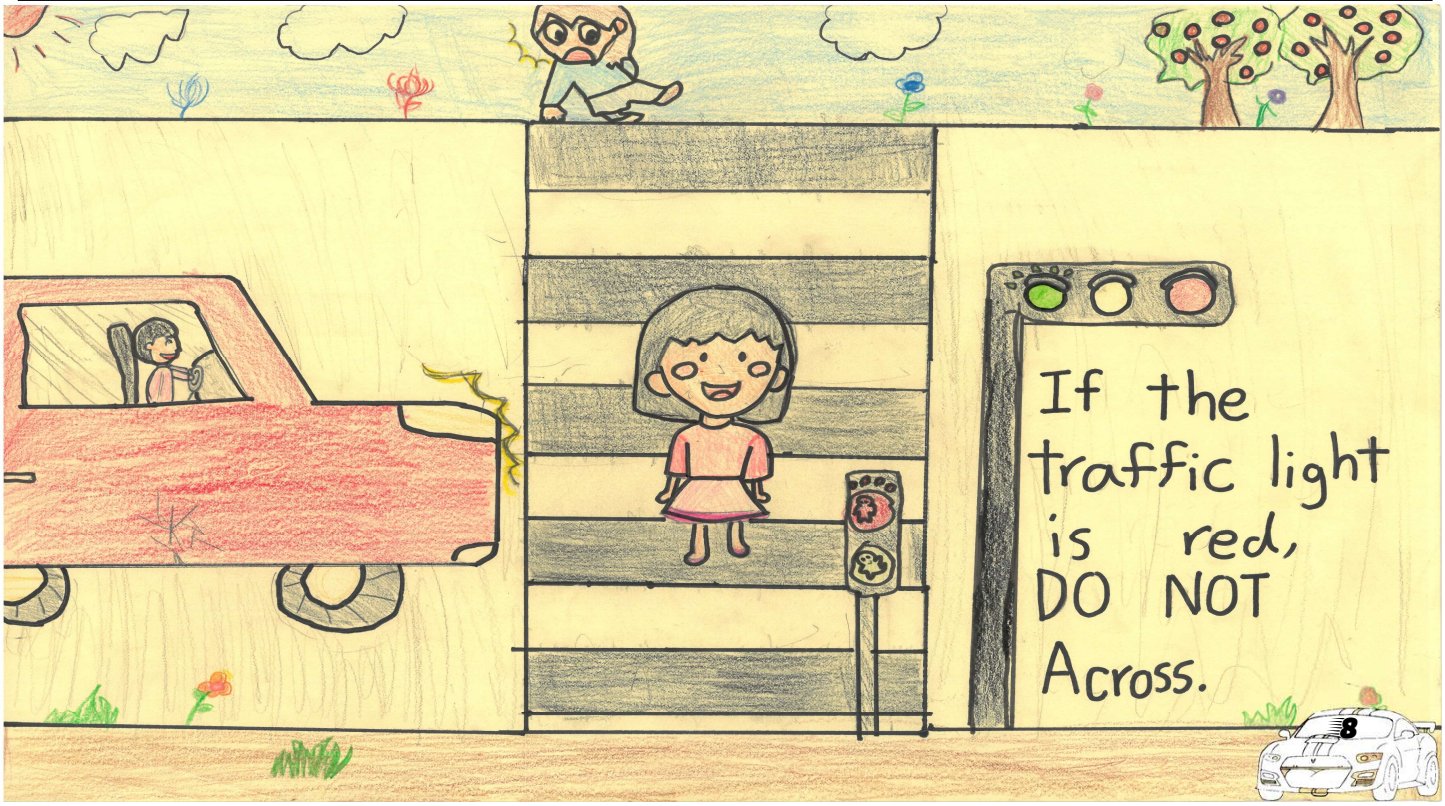
$$Distance = Speed\ x\ time$$

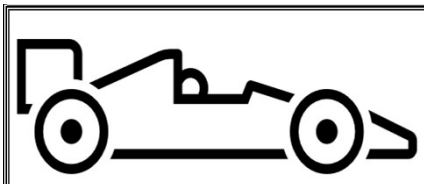
D = S x T



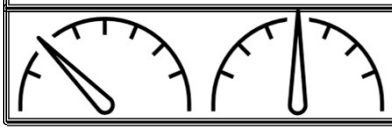
Speed is the combination of distance and time. When we move over a **period** of **time**, we have a **speed**. That **speed** is defined by either ${}^{km}/_{hr}$ or ${}^{m}/_{s}$. **Speed** is how fast we are moving. When we bike, when we run, even when we drive in a car, then we have a **speed**.

People often say, that it is the **speed** that kills. When there is an accident, the **speed** is one of the biggest reasons that the accident is dangerous.

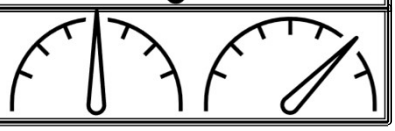




SPEED



ASSIGNMENT



Jooa is driving to school. Jooa drives for 30km, it takes 3 hours for her to go to school. How fast was she driving?

Speed ?	Distance _____	Time _____

Time = Distance _____ ÷ time _____ = _____ $^{km}/_{hr}$

Myoungjin is running to school. He runs for 5km, it takes 10 minutes for him to go to school. How fast was he running?

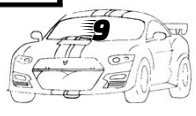
Speed ?	Distance _____	Time _____

Time = Distance _____ ÷ time _____ = _____ $^{km}/_{hr}$

Siyul is biking to school. Siyul drives for 300km, it takes 5 hours for her to go to school. How fast was she biking?

Speed ?	Distance _____	Time _____

Time = Distance _____ ÷ time _____ = _____ $^{km}/_{hr}$



SPEED

REVIEW

Signature	_____	_____/21

1. How can you describe speed?

_____

2. Write the words in their unit version.

Kilometers per hour	*Meters per second*	*Kilometers per second*
_____	_____	_____

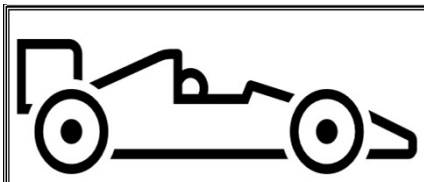
Relative

☐ _____

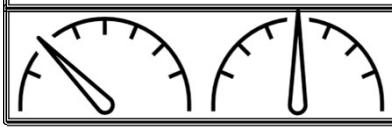
_____

☐ _____

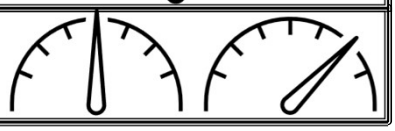
_____



SPEED



REVIEW



Mr. Stacey is biking to work. Mr. Stacey bikes for 10 hours at a speed of 50 $^{km}/_{hr}$. How far will Mr. Stacey get?

Distance ?	Speed _____	Time _____

Distance = speed _____ **X** time _____ = _____ km

Mr. Chris is running home. He runs for 16km, it takes 30 minutes for him to go home . How fast was he running?

Speed ?	Distance _____	Time _____

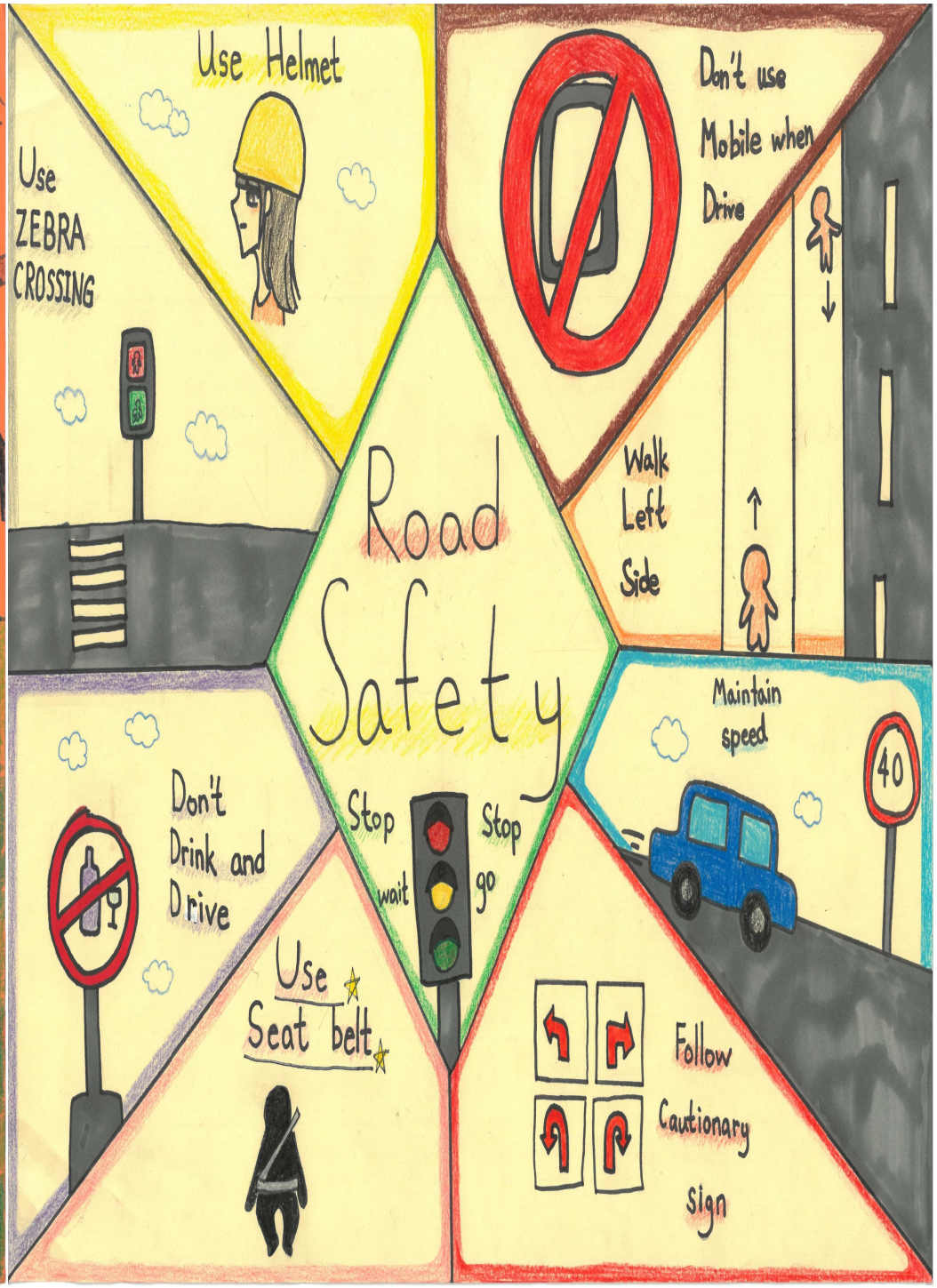
Time = Distance _____ ÷ time _____ = _____ $^{km}/_{hr}$

Mr. Cartlidge is driving to his vacation home. He drives 240km and he is driving 60 $^{km}/_{hr}$.
How long does it take for Mr. Cartlidge to go to his vacation home?

Time ?	Distance _____	Speed _____

Time = Distance _____ ÷ Speed _____ = _____ hr

raise your hand!
STOP
WAIT
GO


Use Helmet
Use ZEBRA CROSSING
Don't use Mobile when Drive
Road Safety
Walk Left Side
Maintain speed
40
Don't Drink and Drive
Stop
wait
Stop
go
Use Seat belt
Follow Cautionary sign