



UNIT 7 SPEED



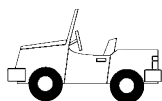
DISTANCE AND SPEED

Vocabulary



Speed How fast someone or something is moving. It is measured as distance travelled per unit time.

Example: Unless otherwise stated, the speed limit on all roads in Singapore is 50 kilometres per hour (50 km/h).



How To

There are 3 related quantities: distance, time and speed. Given any two quantities, the third quantity can be calculated.

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

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

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

1. A motorist takes 2 hours to travel 180 km. What is his speed?

Method 1

$$2 \text{ h} \rightarrow 180 \text{ km}$$

$$1 \text{ h} \rightarrow 180 \div 2 = 90 \text{ km}$$

His speed is 90 km/h.

To find the speed is
to find the distance travelled
per hour.

Method 2

$$\text{Speed} = 180 \div 2$$

$$= 90 \text{ km/h}$$

His speed is 90 km/h.

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