

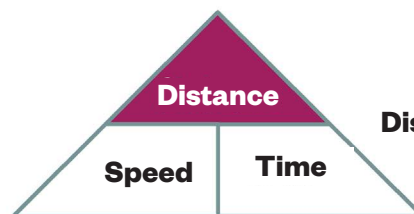


# Speed, Time & Distance

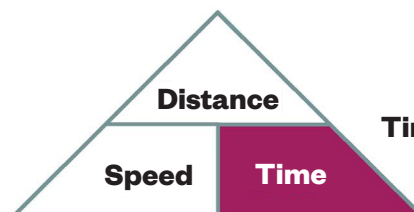
Múinteoir Clíona's lesson today was all about distance, speed and time.

- **Distance is how far something travels**
- **Speed is how fast something travels.**
- **Time is how long something takes to happen.**

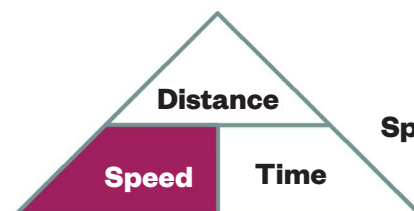
The distance, speed and time triangle is an easy way to remember the formulae to help you work out problems.



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



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



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



## Zombie Quiz

**01** A zombie walks at a pace of 2km/h. There is a zombie 10km from Dave's house. How long will it take for the zombie to reach Dave?



**02** Dave runs to his parents' house at a steady speed of 15km/h. It takes Dave 3 hours to get there. How far away is his parents' house?

**03** Dave and his parent's jump in the car and drive 150km to the ferry. It takes them 1.5 hours to get to the ferry. How fast were they going?

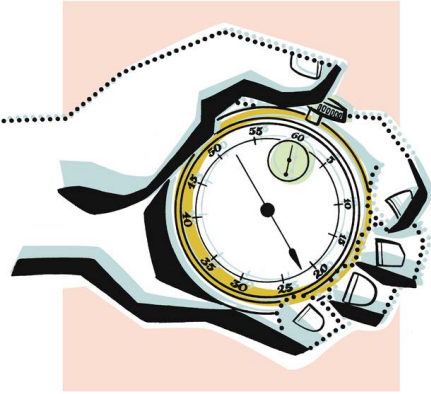
**04** Some zombies follow the ferry. They are fast, they can swim 100km in 2 hours. Dave's ferry is travelling at 45km/hour. Who is faster? Can the zombies catch the ferry?





# The Fastest Living Things

**Fastest Human** Usain Bolt has reached the speed of 44km/h.



**Fastest Land animal** Cheetahs have been known to reach speeds of up to 120km/h.

**Fastest Fish** Black marlin have been recorded swimming at 129km/h.



**Fastest bird (diving)** When the peregrine falcon is chasing prey it closes its wings and falls from the sky in a spectacular vertical stoop, doing this it can reach speeds of over 300km/h!

## One Last Question

If a cheetah were running at full speed of 120km/h how long would it take her to travel the 300km from Dublin to Tralee?



**Answers:** 1) 5 hours 2) 45 kms 3) 100km/h 4) The zombies are faster, swimming at 50km/h. Yes, they will catch up with the ferry.  
**Cheetah question** = 2.5hrs/2hrs 30mins.