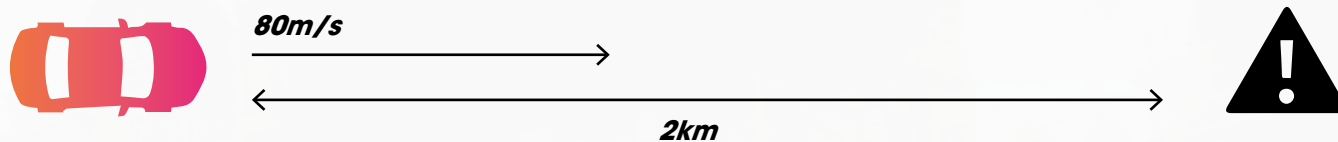


## CHALLENGE 1

A Lamborghini Aventador is travelling at 80m/s (metres per second) towards a Danger Sign (a jump ramp) 2km away.



How many seconds does it take for the car to reach the Danger Sign?

## CHALLENGE 2

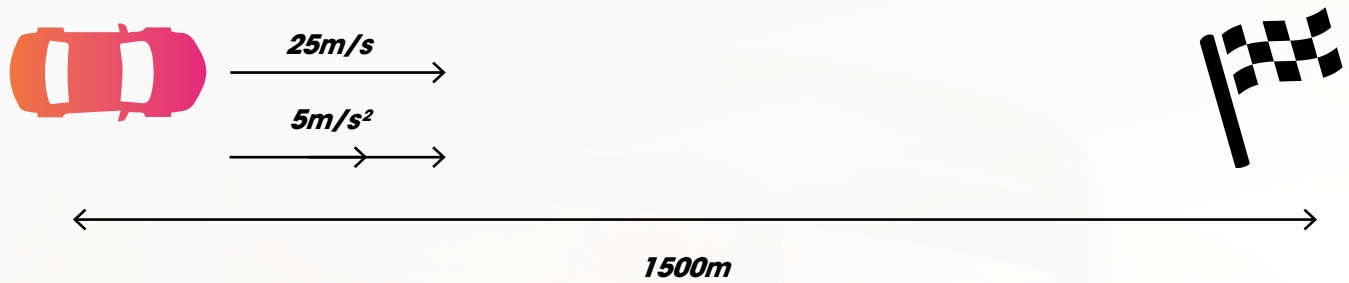
A Ferrari Enzo and a Ford Fiesta are racing down a road towards a Speed Trap (a speed camera). The Ferrari Enzo is travelling at 120m/s and a Ford Fiesta is travelling at 20m/s. The Ford Fiesta starts 1600m ahead of Ferrari Enzo. 440m ahead of Ford Fiesta is a Speed Trap.



- How long in seconds does it take for the Ferrari Enzo to catch up to the Ford Fiesta?
- Which car reaches the Speed Trap first?
- What is the distance between the two cars when the Ferrari reaches the Speed Trap?

## CHALLENGE 3 - WARNING: HARD!

A Dodge Viper is in a Drag Race. It is travelling at  $25\text{m/s}$  and accelerating at  $5\text{m/s}^2$  (5 metres per second, per second - i.e. the car is increasing in speed by  $5\text{m/s}$  every second. For example, after 1 second it's travelling at  $30\text{m/s}$ ) towards the finish line which is  $1500\text{m}$  away.



How long in seconds does it take for the Dodge Viper to reach the finish line?



XBOX  
GAME STUDIOS

 **FORZA**  
**HORIZON 4**