

Stopping distances

Task 1

Fill in the final column by adding the two distances together.

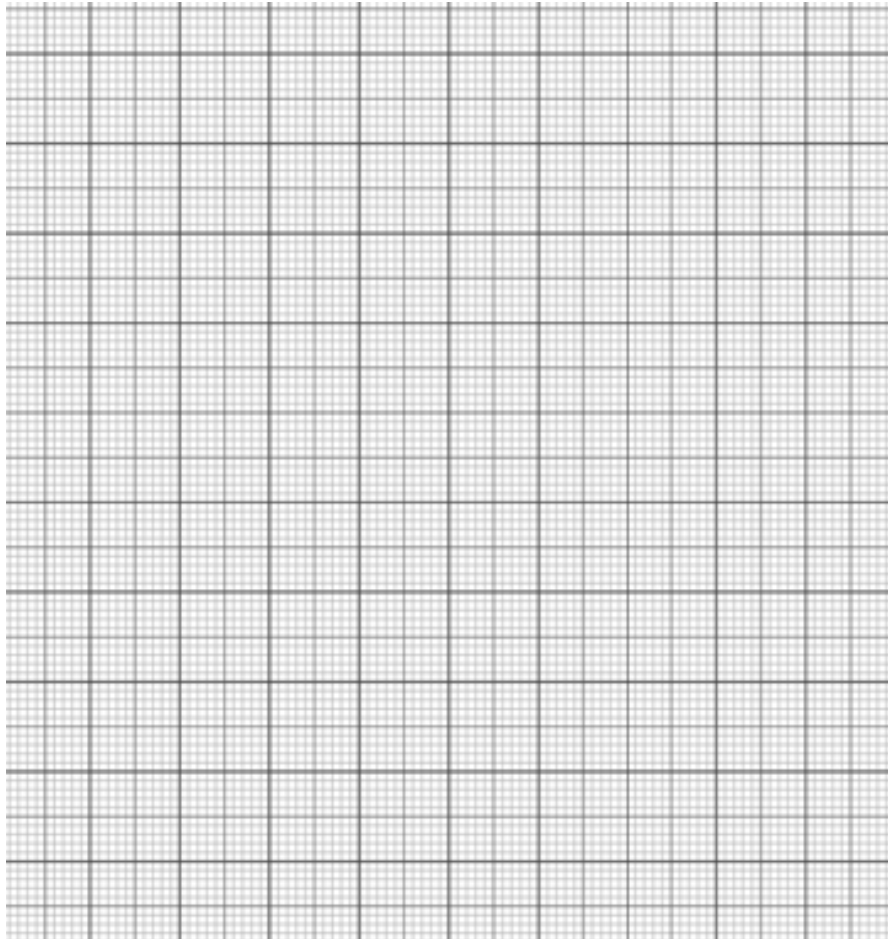
Velocity (m/s)	Thinking Distance (m)	Braking Distance (m)	Total Stopping Distance (m)
9	6	6	
13	9	14	
18	12	24	
22	15	38	
26	18	55	
31	21	75	

What do you notice about how thinking distance increases with speed?

Does braking distance increase the same way?

Plot a Graph

Plot a line graph of **velocity** in m/s on the x-axis against **total stopping distance** in m on the y-axis.



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Task 2

The driver is very tired. How and why will this affect the stopping distance? (Is **thinking** or **braking** distance affected?)

How would wet conditions affect stopping distance and why?
