

The below diagram shows how the thinking and braking distances of the average driver are affected by their initial speed under normal conditions.


Calculate the average stopping distance at a speed of 30 mph .

Stopping distance $=$ m
[1 mark]


List two factors which affect the thinking distance of a driver.


Karen looks at the above diagram and says that "the thinking distance of a driver is proportional to their speed".

Is she correct? Explain your answer.
[2 marks]


She then goes on to say that "the braking distance of a driver is also proportional to their speed".

Is she correct now? Explain your answer.

