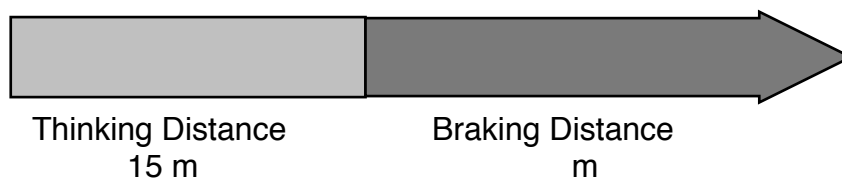


1. A car driver stops her car in an emergency. The diagram below shows the factors that affect how quickly the car can stop.

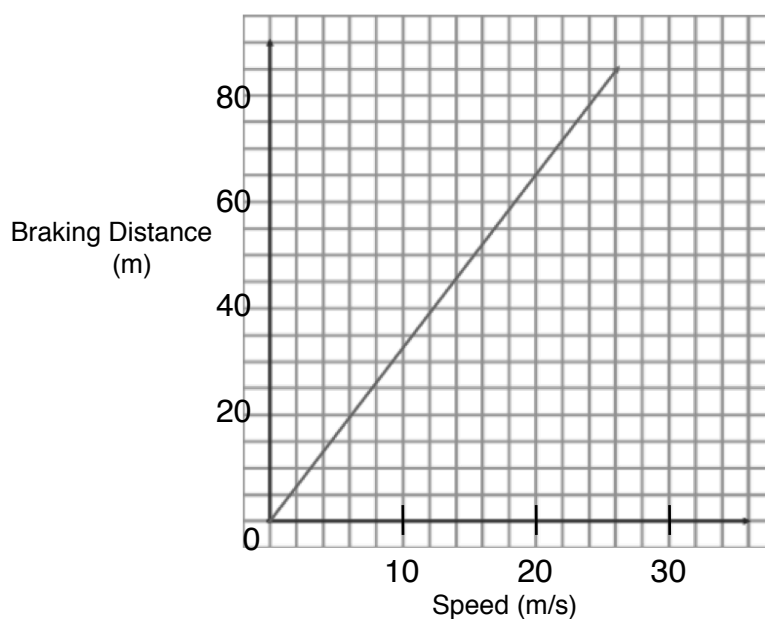


1. (a) The total stopping distance was 29 m. Calculate the braking distance of the car.  
show your working.

Braking Distance ..... m

(2 marks)

2. The graph below shows the relationship between speed and braking distance of a car.



2. (a) Use the graph to estimate the braking distance for a car traveling at 20 m/s.

.....  
(1 mark)

2. (b) Other than speed, name two other factors that can increase braking distance.

Factor 1 .....

Factor 2 .....  
(2 marks)

**Total 5 marks**

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