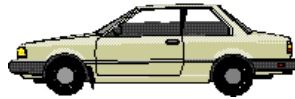


# Stop the car!

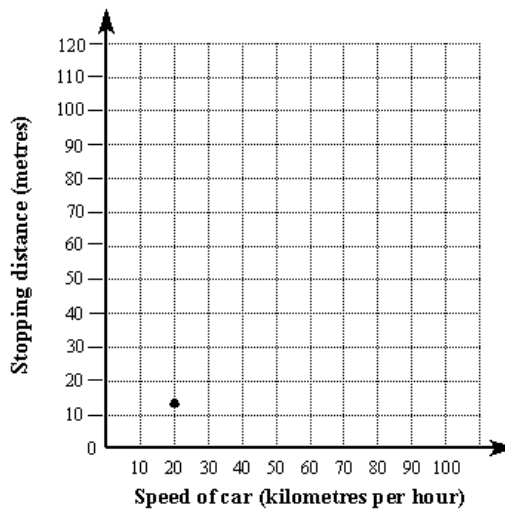


Here are some car speeds and the distance it takes for a car to stop when it is travelling at this speed, e.g., at a speed of 20 kilometres per hour it takes a car 13 metres to stop when it brakes.

<b>Speed (kilometres per hour)</b>	20	40	60	80	100
<b>Stopping distance (metres)</b>	13	30	55	80	110

a) Using the data in the table complete the graph below. The first point is done for you.

**Car Speed and Stopping Distance**



b) Complete the sentence about stopping distance.

The faster a car is going the ...

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c) i) If the road the car was travelling on was wet the stopping distance would (circle one)

**decrease.**

**stay the same.**

**increase.**

ii) Explain your answer to i).

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