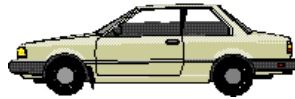


Stop the car!

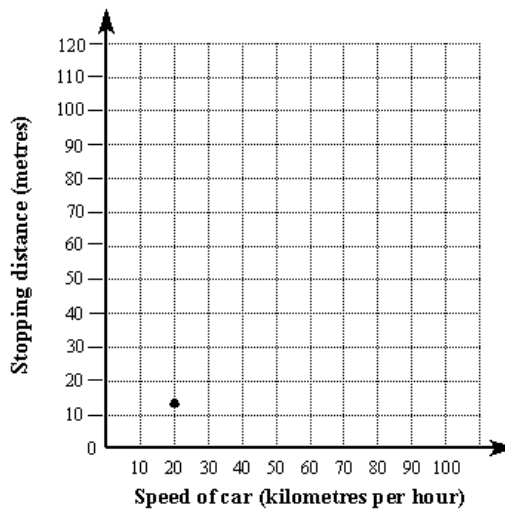


Here are some car speeds and the distance it takes for a car to stop when it is travelling at this speed, e.g., at a speed of 20 kilometres per hour it takes a car 13 metres to stop when it brakes.

Speed (kilometres per hour)	20	40	60	80	100
Stopping distance (metres)	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 ...

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).
