



What are appropriate following distances at these speeds?

- 20mph _____
- 30mph _____
- 40mph _____
- 50mph _____
- 60mph _____
- 70mph _____

A light turns yellow 15m in front of your car travelling at 40mi/hr.

1. Duration of Yellow Light Trials _____
2. Average Duration of yellow light _____
3. Length of Car _____
4. Length of Intersection _____
5. Distance to clear intersection _____
6. Total stopping distance _____
7. Time to clear intersection at 30mph _____
8. Is the yellow light long enough? Explain.

Sketch the Situation

- ① If you double your speed does breaking distance double? What about tripling it?
- ② Why is it a bad idea to tailgate the car in front of you?
- ③ What would happen to stopping distance if the roads were wet/your tires were old/you were tired/intoxicated?
- ④ A car traveling 40mi/hr sees a light turn yellow when 15 meters away from it. Will they have time to stop?
- ⑤ You are traveling 20mi/hr in a school zone. A child runs out into the road chasing a ball 15m in front of you. Will slamming the breaks work? What if the child was only 10m away?