1

If it took Carlos 1/2 hour to cycle from his house to the library yesterday, was the distance that he cycled greater than 6 miles? (Note: 1 mile = 5280 ft)

(1) The average speed at which Carlos cycles from his house to the library yesterday was greater than 16 feet per second.

(2) The average speed at which Carlos cycles from his house to the library yesterday was less than 18 feet per second.

2

Reiko drove from point A to point B at a constant speed, and then returned to A along the same route at a different constant speed. Did Reiko travel from A to B at a speed greater than 40 miles per hour?

(1) Reiko's average speed for the entire round trip, excluding the time spent at point B, was 80 miles per hour.

(2) It took Reiko 20 more minutes to drive from A to B than to make the return trip.

3

How long, in minutes, did it take a bicycle wheel to roll along a flat, straight 300-meter path?

(1) The wheel made one full 360-degree rotation every 1.5 meters.
(2) The wheel made 18 360-degree rotations per minute.

4

If he did not stop along the way, what speed did Bill average on his 3-hour trip?

(1) He travelled a total of 120 miles.
(2) He travelled half the distance at 30 miles per hour and half the distance at 60 miles per hour.