

1

In racing over a given distance d at uniform speed, A can beat B by 20 yards, B can beat C by 10 yards, and A can beat C by 28 yards. Then d , in yards, equal

- A. not determined by the give information
- B. 58
- C. 100
- D. 116
- E. 120

2

Points A and B are 120 km apart. A motorcyclist starts from A to B along straight road AB with speed 30 kmph. At the same time a cyclist starts from B along a road perpendicular to road AB, with a speed of 10 kmph. After how many hours will the distance between them be the least?

- A. 3 hours
- B. 3.4 hours
- C. 3.5 hours
- D. 3.6 hours
- E. None

3

A hiker walked for two days. On the second day the hiker walked 2 hours longer and at an average speed 1 mile per hour faster than he walked on the first day. If during the two days he walked a total of 64 miles and spent a total of 18 hours walking, what was his average speed on the first day?

- (A) 2 mph
- (B) 3 mph
- (C) 4 mph
- (D) 5 mph
- (E) 6 mph