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**2017 Q23**

23. Each day for four days, Linda traveled for one hour at a speed that resulted in her traveling one mile in an integer number of minutes. Each day after the first, her speed decreased so that the number of minutes to travel one mile increased by 5 minutes over the preceding day. Each of the four days, her distance traveled was also an integer number of miles. What was the total number of miles for the four trips?

- (A) 10      (B) 15      (C) 25      (D) 50      (E) 82

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**1995 Q25**

25. Buses from Dallas to Houston leave every hour on the hour. Buses from Houston to Dallas leave every hour on the half hour. The trip from one city to the other takes 5 hours. Assuming the buses travel on the same highway, how many Dallas-bound buses does a Houston-bound bus pass on the highway (not in the station)?

- (A) 5      (B) 6      (C) 9      (D) 10      (E) 11

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## 2014 Q25

25. A straight one-mile stretch of highway, 40 feet wide, is closed. Robert rides his bike on a path composed of semicircles as shown. If he rides at 5 miles per hour, how many hours will it take to cover the one-mile stretch?

Note: 1 mile = 5280 feet

- (A)  $\frac{\pi}{11}$       (B)  $\frac{\pi}{10}$       (C)  $\frac{\pi}{5}$       (D)  $\frac{2\pi}{5}$       (E)  $\frac{2\pi}{3}$

