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## 2013 Q11

11. Ted's grandfather used his treadmill on 3 days this week. He went 2 miles each day. On Monday he jogged at a speed of 5 miles per hour. He walked at the rate of 3 miles per hour on Wednesday and at 4 miles per hour on Friday. If Grandfather had always walked at 4 miles per hour, he would have spent less time on the treadmill. How many minutes less?

- (A) 1      (B) 2      (C) 3      (D) 4      (E) 5



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## 1985 Q13

13. If you walk for 45 minutes at a rate of 4 mph and then run for 30 minutes at a rate of 10 mph, how many miles have you gone at the end of one hour and 15 minutes?

- A) 3.5 miles      B) 8 miles      C) 9 miles      D)  $25\frac{1}{3}$  miles      E) 480 miles

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**2006 Q13**

13. Cassie leaves Escanaba at 8:30 AM heading for Marquette on her bike. She bikes at a uniform rate of 12 miles per hour. Brian leaves Marquette at 9:00 AM heading for Escanaba on his bike. He bikes at a uniform rate of 16 miles per hour. They both bike on the same 62-mile route between Escanaba and Marquette. At what time in the morning do they meet?
- (A) 10:00      (B) 10:15      (C) 10:30      (D) 11:00      (E) 11:30

Problems 14, 15 and 16 involve Mrs. Reed's English assignment.

**A Novel Assignment**

The students in Mrs. Reed's English class are reading the same 760-page novel. Three friends, Alice, Bob and Chandra, are in the class. Alice reads a page in 20 seconds, Bob reads a page in 45 seconds and Chandra reads a page in 30 seconds.

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14. A computer can do 10,000 additions per second. How many additions can it do in one hour?
- A) 6 million      B) 36 million      C) 60 million  
D) 216 million      E) 360 million

1987 Q14

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**2006 Q14**

14. If Bob and Chandra both read the whole book, Bob will spend how many more seconds reading than Chandra?
- (A) 7,600 (B) 11,400 (C) 12,500 (D) 15,200 (E) 22,800



**2009 Q14**

14. Austin and Temple are 50 miles apart along Interstate 35. Bonnie drove from Austin to her daughter's house in Temple, averaging 60 miles per hour. Leaving the car with her daughter, Bonnie rode a bus back to Austin along the same route and averaged 40 miles per hour on the return trip. What was the average speed for the round trip, in miles per hour?



- (A) 46      (B) 48      (C) 50      (D) 52      (E) 54

**2016 Q14**

14. Karl's car uses a gallon of gas every 35 miles, and his gas tank holds 14 gallons when it is full. One day Karl started with a full tank of gas, drove 350 miles, bought 8 gallons of gas, and continued driving to his destination. When he arrived, his gas tank was half full. How many miles did Karl drive that day?

- (A) 525      (B) 560      (C) 595      (D) 665      (E) 735

**2001 Q15**

15. Homer began peeling a pile of 44 potatoes at the rate of 3 potatoes per minute. Four minutes later Christen joined him and peeled at the rate of 5 potatoes per minute. When they finished, how many potatoes had Christen peeled?

- (A) 20      (B) 24      (C) 32      (D) 33      (E) 40

**2006 Q15**

15. Chandra and Bob, who each have a copy of the book, decide that they can save time by “team reading” the novel. In this scheme, Chandra will read from page 1 to a certain page and Bob will read from the next page through page 760, finishing the book. When they are through they will tell each other about the part they read. What is the last page that Chandra should read so that she and Bob spend the same amount of time reading the novel?

**(A)** 425**(B)** 444**(C)** 456**(D)** 484**(E)** 506