1 / 7

2009 Q6

6. Steve's empty swimming pool will hold 24,000 gallons of water when full. It will be filled by 4 hoses, each of which supplies 2.5 gallons of water per minute. How many hours will it take to fill Steve's pool?

(A) 40 **(B)** 42 **(C)** 44 **(D)** 46 **(E)** 48

2 / 7

2013 Q7

7. Trey and his mom stopped at a railroad crossing to let a train pass. As the train began to pass, Trey counted 6 cars in the first 10 seconds. It took the train 2 minutes and 45 seconds to clear the crossing at a constant speed. Which of the following was the most likely number of cars in the train?

(A) 60 **(B)** 80 **(C)** 100 **(D)** 120 **(E)** 140

3 / 7

1993 Q8

8. To control her blood pressure, Jill's grandmother takes one half of a pill every other day. If one supply of medicine contains 60 pills, then the supply of medicine will last approximately

(A) 1 month **(B)** 4 months **(C)** 6 months
(D) 8 months **(E)** 1 year

4 / 7

1998 Q8

8. A child's wading pool contains 200 gallons of water. If water evaporates at the rate of 0.5 gallons per day and no other water is added or removed, how many gallons of water will be in the pool after 30 days?

(A) 140 **(B)** 170 **(C)** 185 **(D)** 198.5 **(E)** 199.85

5 / 7

2010 Q8

8. As Emily is riding her bicycle on a long straight road, she spots Emerson skating in the same direction 1/2 mile in front of her. After she passes him, she can see him in her rear view mirror until he is 1/2 mile behind her. Emily rides at a constant rate of 12 miles per hour, and Emerson skates at a constant rate of 8 miles per hour. For how many minutes can Emily see Emerson?

(A) 6 **(B)** 8 **(C)** 12 **(D)** 15 **(E)** 16

6 / 7

2005 Q8

8. Suppose m and n are positive odd integers. Which of the following must also be an odd integer?

(A) $m+3n$ **(B)** $3m-n$ **(C)** $3m^2+3n^2$ **(D)** $(nm+3)^2$ **(E)** $3mn$

7 / 7

2011 Q8

8. Bag A contains three chips labeled 1, 3, and 5. Bag B contains three chips labeled 2, 4, and 6. If one chip is drawn from each bag, how many different values are possible for the sum of the two numbers on the chips?

(A) 4 **(B)** 5 **(C)** 6 **(D)** 7 **(E)** 9