

GRE Math Problems

1. James can swim 750 yards in 10 minutes. If he swims at the same constant rate, how many minutes will it take him to swim 4.2 times this distance?
 - a. 14.2
 - b. 42
 - c. 52.8
 - d. 75
 - e. 315

2. If $(x-1)(2x+3)(x+5) = 0$, then which of the following could be the value of x ?
 - a. $-3/2$
 - b. -1
 - c. $2/3$
 - d. 5
 - e. 6

3. 190 students go to a school bake sale. 95 buy a chocolate chip cookie 75 buy a peanut butter cookie, and at least 12 buy both. What is the least number of students who could have bought neither type of cookie?
 - a. 10
 - b. 24
 - c. 30
 - d. 32
 - e. 45

4. A hat contains 18 raffle tickets, numbered 1 through 18. If two raffle tickets are chosen at random from the hat, what is the probability that both tickets are even numbers?
 - a. $2/9$
 - b. $4/17$
 - c. $1/4$
 - d. $1/2$
 - e. $33/34$

5. Trip A is $6x$ miles long and takes $5y$ hours. Trip B is $5x$ miles long and takes $4y$ hours.

Column A

The rate of trip A in
miles per hour

Column B

The rate of trip B in
miles per hour

- a. The quantity in Column A is greater.
b. The quantity in Column B is greater.
c. The two quantities are equal.
d. The relationship cannot be determined from the information given.
6. $4c + 6 = 26$. What is the value of $3c - 2$?
- a. $-1/2$
b. 4
c. 5
d. 13
e. 22
7. What is the greatest integer that does NOT satisfy $3(x - 9) < 5x - 2(1 - 3x)$?
- a. -4
b. -3
c. 0
d. 3
e. 4

Answer Key for Math Problems

1. b (42)
2. a ($-3/2$)
3. d (32)
4. b ($4/17$)
5. b (The quantity in Column B is greater)
6. d (13)
7. a (-4)