7. The speed of one car is 20% less than the speed of a second car. What per cent more time does the first car need to travel the same route as the second car?

a. 12.5%
b. 20%
c. 25%
d. 30%
e. 33%

8. Number of boys in a class is twice the number of girls. 20% of the girls are brunettes and of the rest – half are blondes: Mary, Clara, Gina and Trisha. How many boys study in this class?

a. 20
b. 24
c. 30
d. 32
e. 40

9. In the previous question – what part of all the students are brunette girls?

a. 20%
b. 1/10
c. 1/2
d. 1/15
e. 15%

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10. If the average of three numbers is V, one of the numbers is Z and another is Y, what is the remaining number?

a. ZY – V
b. Z/V – 3 – Y
c. Z/3 – V – Y
d. 3V- Z – Y
e. V- Z – Y

11. Two cyclists start biking from a trail's start 3 hours apart. The second cyclist travels at 10 miles per hour and starts 3 hours after the first cyclist who is traveling at 6 miles per hour. How much time will pass before the second cyclist catches up with the first from the time the second cyclist started biking?

a. 2 hours
b. 4 ½ hours
c. 5 ¾ hours
d. 6 hours
e. 7 ½ hours

12. Jim can fill a pool carrying buckets of water in 30 minutes. Sue can do the same job in 45 minutes. Tony can do the same job in 1 ½ hours. How quickly can all three fill the pool together?