MTH2300

1. A radio station advertises, “Traffic every 10 minutes, 24 hours a day; 1000 reports each week.” What is the difference between the advertised number of reports and the exact number?
   A. 8  B. 12  C. 16  D. 20  E. 24

2. The average of A and 2B is 7, and the average of A and 2C is 8. What is the average of A, B, and C?
   A. 3  B. 4  C. 5  D. 6  E. 9

3. A class is exactly 40% female. When 3 male students are replaced by female students, the class becomes exactly 44% female. How many more males than females are in the original class?
   A. 10  B. 12  C. 15  D. 18  E. 20

4. A piece has 2 saxophone parts, 3 trumpet parts, and 3 trombone parts. If a band has 2 saxophonists, 3 trumpeters, and 3 trombonists, in how many ways can different parts be assigned to each player?
   A. 18  B. 72  C. 324  D. 512  E. 2916