

GMAT quantitative reasoning sample paper

1. Karen sold her house at a loss of 25 percent of the price that she originally paid for the house, and then bought another house at a price of 30 percent less than the price she originally paid for her first house. If she sold the first house for \$225,000, what was her net gain, in dollars, for the two transactions?
(A) \$15,000
(B) \$25,000
(C) \$60,000
(D) \$75,000
(E) \$90,000
2. A certain company sells tea in loose leaf and bagged form, and in five flavors: Darjeeling, earl grey, chamomile, peppermint, and orange pekoe. The company packages the tea in boxes that contain either 8 ounces of tea of the same flavor and the same form, or 8 ounces of tea of 4 different flavors and the same form. If the order in which the flavors are packed does not matter, how many different types of packages are possible?
(A) 12
(B) 15
(C) 20
(D) 25
(E) 30
3. A certain airline's fleet consisted of 60 type A planes at the beginning of 1980. At the end of each year, starting with 1980, the airline retired 3 of the type A planes and acquired 4 new type B planes. How many years did it take before the number of type A planes left in the airline's fleet was less than 50 percent of the fleet?
6
7
8
9
10
4. For any positive integer n , the sum of the first n positive integers equals $n(n+1)/2$. What is the sum of all the even integers between 99 and 301?
A. 10,100
B. 20,200
C. 22,650
D. 40,200
E. 45,150
5. A student's average (arithmetic mean) test score on 4 tests is 78. What must be the student's score on a 5th test for the student's average score on the 5 tests to be 80?
(A) 80
(B) 82
(C) 84
(D) 86
(E) 88

6. In a class of 50 students, 20 play Hockey, 15 play Cricket and 11 play Football. 7 play both Hockey and Cricket, 4 play Cricket and Football and 5 play Hockey and football. If 18 students do not play any of these given sports, how many students play exactly two of these sports?
- A. 12
 - B. 10
 - C. 11
 - D. 15
 - E. 14
7. If k is an odd integer, which of the following must be an even integer?
- $k^2 - 4$
 - $3k + 2$
 - $2k + 1$
 - $(12k)/8$
 - $(6k)/3$
8. How many positive integers less than 100 have a remainder of 2 when divided by 13?
- 6
 - 7
 - 8
 - 9
 - 10