14

SYSTEM OF EQUATIONS

2012B

1. Each third-grade classroom at Pearl Creek Elementary has 18 students and 2 pet rabbits. How many more students than rabbits are there in all 4 of the third-grade classrooms?

   (A) 48   (B) 56   (C) 64   (D) 72   (E) 80

2003A

2. Members of the Rockham Soccer League buy socks and T–shirts. Socks cost $4 per pair and each T–shirt costs $5 more than a pair of socks. Each member needs one pair of socks and a shirt for home games and another pair of socks and a shirt for away games. If the total cost is $2366, how many members are in the League?

   (A) 77   (B) 91   (C) 143   (D) 182   (E) 286

2003B

2. Al gets the disease algebritis and must take one green pill and one pink pill each day for two weeks. A green pill costs $1 more than a pink pill, and Al's pills cost a total of $546 for the two weeks. How much does one green pill cost?

   (A) $7   (B) $14   (C) $19   (D) $20   (E) $39

2011A

2. A small bottle of shampoo can hold 35 milliliters of shampoo, whereas a large bottle can hold 500 milliliters of shampoo. Jasmine wants to buy the minimum number of small bottles necessary to completely fill a large bottle. How many bottles must she buy?

(A) 11   (B) 12   (C) 13   (D) 14   (E) 15

2005A

3. The equations $2x + 7 = 3$ and $bx - 10 = -2$ have the same solution x. What is the value of b?

(A) -8 (B) -4 (C) -2 (D) 4   (E) 8

2007A

5. A school store sells 7 pencils and 8 notebooks for $4.15. It also sells 5 pencils and 3 notebooks for $1.77. How much do 16 pencils and 10 notebooks cost?