

5-6 Matrices 3

Name: _____

Time> Start: _____ Finish: _____ Total Time = _____

Show the matrix multiplication equation for each and then use your calculator to solve each.

1. $2x + 3y = 22$
 $3x - y = 0$

2. $4n + 7b = 18$
 $2n + 5b = 12$

3. $2x + 3y - z = 15$
 $3x - 5y + z = 6$
 $x + y + 3z = 10$

4. $2n + y + z = 7$
 $n + 3y + 2z = 13$
 $3n - 2y - 2z = -7$

5. $x + y - z = 9$
 $2x + y + 2z = 14$
 $x - 3y - 2z = -7$

6. $2a + b + 3c + d = 20$
 $a + 3b - 2c + d = 24$
 $a + b + c + d = 17$
 $2a + 2b + 2c - 5z = -36$

SAT Questions

- _____7. Several people are standing in a straight line. Starting at one end of the line, Bill is counted as the 5th person, and starting at the other end, he is counted as the 12th person. How many people are in the line?
- _____8. Billy had three boxes of pencils, each of which contained y pencils. He distributed these pencils by giving one to each student in his class, and had 9 pencils left over. If there are 21 students in Billy's class, what is y ?
- _____9. One bag of grass seed covers 5,000 square feet. If each bag costs \$25, how much will it cost to buy enough grass seed to cover a square area that is 200 feet by 200 feet?
- _____10. Given $3x + y = 17$ and $x + 3y = -1$, find the value of $3x + 3y$.