Solve each system of equations by putting the information in a Matrix in your calculator. State the value for each variable, not just the matrix.

10. $2x + y = 4$
$3x + 2y = 1$

11. $6x + 3y = 6$
$8x + 5y = 12$

12. $x - 3y = 16$
$4x - y = 9$

13. $2m - n = -1$
$3m + 2n = 30$

14. $\frac{1}{2}x + 3y = 11$
$8x - 5y = 17$

15. $x - 3y = 9$
$x + 2y = -1$

16. $4x - 3y = -6$
$-x - 2y = 7$

17. $2g + h = 6$
$3g - 2h = 16$

18. $2m + n = 6$
$5m + 6n = 1$

Last year the volleyball team paid \$5 per pair for socks and \$17 per pair for shorts on a total purchase of \$315. This year they spent \$342 to buy the same number of pairs of socks and shorts because the socks now cost \$6 a pair and the shorts cost \$18.

19. Write a system of two equations that represents the number of pairs of socks and shorts bought each year.

20. How many pairs of socks and shorts did the team buy each year?