House Painting Algorithm

1. Import java.util.Scanner;
2. Scanner input = new Scanner(System.in);
3. Print “input width of the house”
4. Set width = user input
5. print “input length of the house”
6. Set length = user input
7. Print “input height width of the house”
8. Set height = user input
9. Print “input number of windows”
10. Set numWindows = user input
11. Print “input window height” and set to windowHeight
12. Print “input window length” and set to windowLength
13. Set windowDimension = windowHeight \* windowLength
14. Print “input number of doors”
15. Set numDoors= user input
16. Print “input door height” and set to doorHeight
17. Print “input door length” and set to doorLength
18. Set doorDimension = doorHeight \* doorLength
19. Print “input painter’s cost”
20. Set cost = user input
21. Set sideArea = length\*width
22. Set peakSideArea = length\*width + .5(length\*(height-width))
23. Set doorArea = numDoors \* doorDimension
24. Set windowArea = numWindows \* windowDimension
25. totalSurfaceArea = 2(sideArea) + 2(peakSideArea) - (doorArea + windowArea)
26. totalCost = cost\*totalSurfaceArea
27. Print “Your total printable surface area is “ + totalSurfaceArea + “ total square feet”
28. Print “Your estimate is “ + totalCost + “ dollars”