# calculated the final grade average using weights (all weights add to 1)

midterm = int(input("Enter your midterm grade: "))
final = int(input("Enter your final grade: "))
homework = int(input("Enter your homework grade: "))

midterm_weight = float(input("Enter midterm weight: "))
final_weight = float(input("Enter final weight: "))

homework_weight = 1.0 - (midterm_weight + final_weight)

average = (midterm * midterm_weight) + (final * final_weight) + (homework * homework_weight)

print("Grade average is: ", average)