

II. Height Program Two (10 points)

- 1) Revise the previous program by moving the calculations to the print statements.
- 2) Remove all unnecessary statements and variables.
- 3) Save as **P1ch1prg2.java**

Save, run, and debug.

When perfect, show your teacher the coding and output (run).

(teacher signature)

Unit 1 Programs

Name _____

class hour _____

Pts: 50

page 1 of 2

I. Height Program One (40 points): Start a new file titled **P1ch1prg1**

Purpose:

Write a program that declares as a constant (HEIGHTiNiNCHES) your height in inches rounded to the nearest inch. The computer will calculate:

1) your height in feet and inches and 2) your height in feet as a decimal.

ex.) 62 inches would be: 1) 5 feet 2 inches and 2) 5.16667

(Note: Do not be concerned with the rounding or number of place values - we will learn that in the next chapter.)

Input:

Do not use **read** but enter the data of 62 into the computer by using a *constant declaration*.

Note: The actual height in inches of 62 is used only once - in the constant declaration and nowhere else. Instead, use the variable HEIGHTiNiNCHES throughout the program in all later calculations and output.

Output should look *exactly* like:

62 inches is

5 feet 2 inches or

5.166666666666667 feet

Further (hints) specifications:

1) Use appropriate comments in your program:

a) Name of program b) Your name c) Class hour

2) Use the proper import statement(s)

3) Use a **constant declaration** for HEIGHTiNiNCHES (which will = 62)

4) Use three other variable **declaration** statements (two integers and one double) - besides the HEIGHTiNiNCHES - to store the results of the three calculations in step six below.

Note: Use meaningful variables.

5) Use three **assignment** statements to calculate and store:

a) the feet Hint: integer division ex.: feet = HEIGHTiNiNCHES/12;

b) the inches Hint: modulus (remainder)

c) the feet and inches as a decimal Hint: HEIGHTiNiNCHES/12.0

(Note: You must use the 12.0, including the decimal part, to get a decimal answer.)

6) Use 3 **print** statements with no calculations and no numbers (only variables) in them (see Output above for the *exact* output!)

7) Use proper indentation (everything between braces is indented)

Run and debug.

When perfect, show your teacher the coding and output (Run).

(teacher signature)

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