**Question #46 gives a table of data for EIGHT girls with their WALKING and RUNNING heart rates.**

**After finding: y = mx + b,**

**they want you to PREDICT the heart rate of a girl with a Walking Rate of 100.**

**While you could try to plot this on graph paper, the detail is probably not accurate enough to get a good answer.**

 **Also, the answer they give you are all very close. (ANSWER IS ‘B’)**

1. **161 B) 163 C) 165 D) 167**

|  |  |
| --- | --- |
| **Walk (L1) X** | **Run (L2) Y** |
| **66** | **128** |
| **72** | **136** |
| **74** | **134** |
| **78** | **138** |
| **80** | **142** |
| **84** | **146** |
| **86** | **148** |
| **88** | **152** |

**On the TI-84:**

[STAT]

{1: Edit}

Enter data in **L1** (Column) WALK

Enter data in **L2** RUN

[STAT] {CALC}

**{4: LinReg ax + b}**

It uses the (L1 and L2 List as the default (But you can change it if necessary)

{**Calculate**}

 It returns the answer of  **‘a’ = 1.04**

 And **‘b’ = 58.84**

PREDICT: y = mx + b When (x) = 100

Y = 1.04(100) + 58.84 Y = 104 + 58.84 = 162.84

 ROUNDS to 163