Microsoft Excel makes it easy to calculate the Rise & Fall without making any errors

Students lacking computer skills and can't follow the instruction should contact me.

1	Α	В	С	D	E	F	G	Н	1	
1	Station	Backsight	Inter mediate	Foresight	Fall(-) Rise(+)	Reduced Level	Remarks	Ri	Rise & Fall Records	
2	Α	1.325				100.000		using		
3	В		2.550		-1.225	98.775		Microsoft Excel		
4	С		3.125		-0.575	98.200				
5	D		2.890		0.235	98.435				
6	E		2.050		0.840	99.275		Column A	Station alphabetical	
7	F		1.850		0.200	99.475				
8	G		1.350		0.500	99.975		Cell B22	Sum of Backsight	
9	Н		1.970		-0.620	99.355		Cell D22	Sum of Foresight	
10	J		2.830		-0.860	98.495		Cell E22	Sum of Rise & Fall	
11	K	0.900		4.750	-1.920	96.575	Change Point			
12	L		1.280		-0.380	96.195		Cell C23	Backsight minus Foresight	
13	M		2.090		-0.810	95.385				
14	N		1.840		0.250	95.635				
15	0		1.875		-0.035	95.600		Formula Sheet shows you the formulas		
16	P	3.375		0.250	1.625	97.225	Change Point	that have	that have been used to calculate the	
17	Q		2.760		0.615	97.840				
18	R		1.980		0.780	98.620		Rise and Fall and the Reduced Levels		
19	S		2.560		-0.580	98.040				
20	Т		3.220		-0.660	97.380				
21	U			0.595	2.625	100.005				
22	V	5.600		5.595	0.005					
23			0.005							

Remember: First activate the cell in which the formula goes then type = and select the data cell and the operand (+, -, * or /)

	Α	В	С	D	Е	F	G	Н			
1	Station	Backsight	Inter mediate	Foresight	Fall(-) Rise(+)	Reduced Level	Remarks	Microsoft Excel Formula Sheet			
2	Α	1.325				100		Record the data (Backsight, Intermediate sight & Fores			
3	В	1	2.55		=B2-C3	=F2+E3		in the appropriate columns cells.			
4	С		3.125		=C3-C4	=F3+E4		 Click on Cell E3 (make it active) and select the = sign. Now you can put the formula in the cell (Always use the = sign for formula input) Then click on cell B2 hit the minus button and click on C3 hit ▶ Enter (first formula is entered in F5 Value = -1.225 is shown 			
5	D		2.89		=C4-C5	=F4+E5					
6	E		2.05		=C5-C6	=F5+E6					
7	F		1.85		=C6-C7	=F6+E7					
8	G		1.35		=C7-C8	=F7+E8					
9	Н		1.97		=C8-C9	=F8+E9	7	2) Make Cell E4 active and select = then click on C3 minus C4 and ▶ Enter (Value = -0575) 3) Copy the formula down to Row 10. 4) Make Cell E11 active and select = (Change Point ROW) click on C10 minus D11 ▶ Enter (Value = -1.92)			
10	J		2.83		=C9-C10	=F9+E10					
11	K	0.9		4.75	=C10-D11	=F10+E11	Change Point				
12	L		1.28		=B11-C12	=F11+E12					
13	M	1	2.09		=C12-C13	=F12+E13		5) Make Cell E12 active and select = (Change Point ROW) then click on B11 minus C12 ► Enter (Value =-0.38) 6) Make Cell E13 active and select = now click on C12 minus C13 ► Enter (Value =-0.81)			
14	N		1.84		=C13-C14	=F13+E14					
15	0		1.875		=C14-C15	=F14+E15					
16	P	3.375	6 3	0.25	=C15-D16	=F15+E16	Change Point	7) copy the formula down to Row 15	own to Row 15		
17	Q		2.76		=B16-C17	=F16+E17	- 7	Follow the above steps to finish the formulas in Column			
18	R		1.98		=C17-C18	=F17+E18		The dealer 0: 0 Fel	W-1-4-6		
19	S	1	2.56		=C18-C19	=F18+E19		Then do the Rise & Fall calculation Make Cell F3 active and select = click on F2 (Bench mark) plus E3 ► Enter (Value 98.775)			
20	Т		3.22		=C19-C20	=F19+E20					
21	U			0.595	=C20-D21	=F20+E21		Now copy this formula dow to F21 and all calculations			
22		=SUM(B2:B21)	16 2	=SUM(D2:D21	=SUM(E3:E21)	8 9		are done for you. (It's that easy, insn't it?)			
23			=B22-D22			8 9					

Site Surveying &Set Out Karl Boeing