How to calculate Hertz the frequency of each pipe

What is a Hertz? It is the SI unit of frequency, equal to one cycle per second.

v = speed of sound in air (room temperature)~ 330-340 m/s

λ = wavelength *(4 X's the length of the tube measured in meters)*
10cm = .10 m

f = frequency in Hertz

The velocity of a sound wave (v) is equal to its frequency (f) times its wavelength.
or

Frequency = velocity divided by wavelength

$f = v/\lambda$

f= 340m/s / (.10m x 4)
f = 340m/s / .40 m = 850 Hertz

Pipe lengths
½” or ¾” PVC

Note	Length (cm)	Frequency (Hz)	COLOR
F_1	23.6	349	BLACK 1
G_1	21.0	392	PINK 1
A_2	18.7	440	RED 1
B_{b1}	17.5	446	GREEN 1
C_1	15.8	523	BLUE 1
D_1	14.0	587	ORANGE 1
E_1	12.5	659	YELLOW 1
F_2	11.8	698	BLACK 2
G_2	10.5	784	PINK 2
A_2	9.4	880	RED 2
B_{b2}	9.2	892	GREEN 2
C_2	7.9	1046	BLUE 2
D_2	7.0	1174	ORANGE 2
E_2	6.2	1318	YELLOW 2

Only cut these 9 pipes

Pipes F_2-D_2 six notes

F F C C D D C B_b B_b A A G G F

C C B_b B_b A A G C C B_b B_b A A G

F F C C D D C B_b B_b A A G G F

Pipes C_1, D_1, E_1, G_2 - four notes

E D C D E E E D D D E G G

E D C D E E E E D D E D C

Pipes C_1 through G_2 five notes

E E E E E E E G C D E

F F F F F E E E E E D D E D G

E E E E E E E G C D E

F F F F F E E E E G G F D C