Wa'alaikumus Salaam wa rahmatul Lah.

Thank you for your *du'a.*

The three questions fall under the topic Inheritance of Grandfather along with siblings in the presence of other heirs. Here, Grandfather has three choices:

1. He takes 1/6 of the estate
2. He receives 1/3 of the residue
3. He acts as a Full Brother and inherits along with Full Sister and Paternal Sister(s). This is called *Muqasama*

In addition, when Grandfather is inheriting along with Full Sister and Paternal Sister, the Paternal sister acts as if she were a Full Sister, when Grandfather takes his share, Paternal Sister surrenders her share to the Full Sister provided it does not exceed ½ of the entire estate.

Therefore, here are the solutions *In Shaa Allah*.

CASE 1

1. When Grandfather takes 1/6 of the estate

Heirs	Mother	Grandfather	Full Sister	Paternal Sister
Shares	1/6	1/6	2/3	
Base number	6			
Portions	1	1	4	
Final portions	1	1	3	1
Values	1/6 = 0.17	1/6 = 0.17	3/6 = 0.5	1/6 = 0.17

Note that the joint share of Full Sister and Paternal Sister is 2/3. It is assumed that there were 2 Full Sisters.

2. When Grandfather receives 1/3 of the residue

Heirs	Mother	Grandfather	Full Sister	Paternal Sister
Shares	1/6	Residue		
Base number	6			
Portions	1	*	*	
New base number	18			
New portions	3	5	10	
Final portions	3	5	9	1
Values	3/18 = 0.17	0.28	0.5	0.06

Given a base number of 6, if the mother's share is deducted, the residue is 5.

Grandfather = 1/3 of 5 = 1.67 (not a whole number)

"2 Full sisters" = 2/3 of 5 = 3.33 (not a whole number)

So, to obtain a new base number, multiply 3 with the base number because we are looking for a new base number that can be divided by 3 so that Grandfather can have his 1/3.

Therefore, 3 x 6 = 18.

New portions:

Mother = 1/6 of 18 = 3

Residue = 18 – 3 = 15

Grandfather = 1/3 of 15 = 5

"2 Full Sisters" = 2/3 of 15 = 10, to be shared 5 each.

Thereafter, Paternal Sister submits 4 portions out of 5 to Full Sister.

3. *Muqasama*

Heirs	Mother	Grandfather	Full Sister	Paternal Sister
Shares	1/6	Residue		
Base number	6			
Portions	1	*		
New base number	24			
New portions	4	10	10	
Final portions	4	10	10	0
Values	0.17	0.42	0.42	0

Grandfather acts as a Full Brother.

He and the "2 Full Sisters" cannot share the residue of 5 after the mother's portion of 1 has been given to her.

New base number = number of heads of Grandfather and "2 Full Sisters" x Base number

That is, 4 x 6 = 24

New portions:

Mother = 1/6 of 24 = 4

Residue = 24 – 4 = 20

Grandfather = ½ of 20 = 10

"2 Full Sisters" = ½ of 20 = 10, to be shared 5 each.

Thereafter, Paternal Sister submits her entire 5 portions to Full Sister.

In conclusion, Grandfather is advised to inherit by *Muqasama* since he will get 0.42 rather than 0.17 or 0.28 if given 1/6 of the estate or 1/3 of the residue respectively.

CASE 2

1. When Grandfather takes 1/6 of the estate

Heirs	Wife	Grandfather	Full Sister	Paternal Sister
Shares	1/4	1/6	2/3	
Base number	12			
Portions	3	2	8	
Final portions	3	2	6	2
Values	3/13 = 0.23	2/13 = 0.15	6/13 = 0.46	2/13 = 0.15

Note that 'Awl (increment of base number) was applied here since the portions add up to 13. Thus, when determining the Values, each Final portion is divided by 13, not 12.

2. When Grandfather receives 1/3 of the residue

Heirs	Wife	Grandfather	Full Sister	Paternal Sister
Shares	1/4	Residue		
Base number	4			
Portions	1	1	1	1
Final portions	1	1	2	0
Values	0.25	0.25	0.5	0

With a base number of 4, if the mother's share is taken away, the residue is 3.

Grandfather = 1/3 of 3 = 1

"2 Full Sisters" = 2/3 of 3 = 2, to be shared 1 each

As usual, Paternal Sister submits her share to Full Sister and ends up with nothing.

3. *Muqasama*

Heirs	Wife	Grandfather	Full Sister	Paternal Sister
Shares	1/4	Residue		
Base number	4			
Portions	1	*		
New base number	16			
New portions	4	6	3	3
Final portions	4	6	6	0
Values	0.25	0.38	0.38	0

Conclusion: Grandfather is advised to inherit by *Muqasama* since he will get 0.38 of the estate.

CASE 3

1. When Grandfather takes 1/6 of the estate

Heirs	Wife	Grandfather	Full Sister	4 Paternal Sisters
Shares	1/4	1/6	2/3	
Base number	12			
Portions	3	2	*	
New base number	60			
New portions	15	10	40	
Final portions	15	10	30	*
Newest base number	240			
Newest portions	60	40	120	5 each
Values	0.25	0.17	0.5	0.02 each

New base number = number of heads of "5 Full Sisters" x initial base number i.e. 5 x 12 = 60

"5 Full Sisters" = 2/3 of 60 = 40. If Full Sister reverts back to her position and takes ½ of the estate which is 30, the residue of 10 cannot be shared by the 4 Paternal Sisters hence the need to determine newest base number.

Newest base number = number of heads of 4 Paternal Sisters x 60 i.e. 4 x 60 = 240

2. When Grandfather receives 1/3 of the residue

Heirs	Wife	Grandfather	Full Sister	4 Paternal Sisters
Shares	1/4	Residue		
Base number	4			
Portions	1	1	2	
New base number	20			
New portions	5	5	10	
Final portions	5	5	10	0
Values	0.25	0.25	0.5	0

3. *Muqasama*

Heirs	Wife	Grandfather	Full Sister	4 Paternal Sisters
Shares	1/4	Residue		
Base number	4			
Portions	1	*		
New base number	28			
New portions	7	6	15 (3 each)	
Final portions	7	6	14	*
Newest base number	112			
Newest portions	28	24	56	1 each
Values	0.25	0.21	0.5	0.009 each

With new base number of 28, if the Full Sister takes her ½ of the estate, the residue will be 1 which cannot be shared by the 4 Paternal Sisters.

Newest base number = number of heads of 4 Paternal Sisters x 28 i.e. 4 x 28 = 112

Consequently, Grandfather is advised to choose 1/3 of the residue since he will get 0.25 of the estate.