Find Your Biometrics Alias

Use this biometric activity to try to outsmart the system and create your biometrics alias. Whether it's Frankie "Danger" Blitz or Bonnie "Black Widow" Mayfair, your biometrics alias is sure to keep you incognito! You will create your biometrics alias by conducting an activity called "hand geometry." **To conduct this activity, you will need a ruler and a calculator.**

Hand Geometry Quick Facts

•Uses the size & shape of your hands to identify you

•Based on the geometric shape of the hand: the size of the palm, length and width of the fingers, distance between knuckles, etc.

•Hand measurements are simple, easy to collect, minimally invasive, & publically accepted.

Activity

1. Find a blank piece of paper and outline your hand. Use this outline to take your measurements in centimeters, then record these measurements in Table 1.

2. Measure the length your right fingers and record their measurements in the table below. Record the length as a fraction in the first length column and then convert the fraction to decimal and record the number in the second column. For example, if the index finger from point A to B is 3 ½ cm, the length is 3.5 cm in decimal form. Repeat the same process for the other four fingers and record the measurements in the table.

3. Measure the palm of your partner's right hand and record the length and width in the table below. The length of your palm should be measured from point C to point L and the width of your palm should be measured from point I to point K. Convert the fraction to a decimal and record the number in the table.

4. Repeat steps 2 and 3, measuring your fingers and writing your results in the table below following the same instructions.

Table1

Finger	Length (cm)	Length (decimal)	Width (cm)	Width (decimal)
Index (A-B)				
Middle (C-D)				
Ring (E-F)				
Pinky (G-H)				
Thumb (I-J)				
Palm (Length: C-L, Width: I-K)				

5. Round the decimal lengths and widths to the nearest whole number and record these rounded length and rounded width in the table below. Then multiply the length and width of each finger and palm to get the estimated area. Record your numbers in Table 2.

6. Using a calculator, multiply your original decimal results for your fingers and palm (from the table on the previous page) to find the actual area and record your numbers in the table below.

7. Subtract the actual area from the estimated area to get the error.

8. Add all of the results in the estimated area column and write the total in the bottom row. Do this for actual area and error as well to find the total estimated area and total actual area for your hand as well as the total error in your rounded calculations.

Table2

Finger	Rounded Length	Rounded Width	Estimated Area	Actual Area	Error
Index (A-B)	x	=	.	=	
Middle (C-D)	x	=	.	=	
Ring (E-F)	x	=	.	=	
Pinky (G-H)	x	=	.	=	
Thumb (I-J)	x	=	.	=	
Palm (Length: C-L, Width: I-K)	x	=	.	=	
		Totals			

Now it's time to find your alias!

Use your **palm length** from Table 1 to find your first name!

My palm length is:

_____

Girls
First Name

3.5 cm & Below = Bonnie

3.6-5.5 = Penelope

5.6-7.0 = Fleur

7.1-9.0 = Maria

9.1 + = Claudia

Boys
First Name

3.5 cm & Below = Boris

3.6-5.5 = Frankie

5.6-7.0 = Yanni

7.1-9.0 = Marco

9.1 + = Dante

Use your **estimated area** from Table 2 to find your middle name!

My estimated area is:

_____

Girls
Middle Name

90 cm & Below = "Danger"

91-115 = "Black Widow"

116-134 = "Bare Hands"

135-170= "The Whistler"

171 + = "Cha Cha"
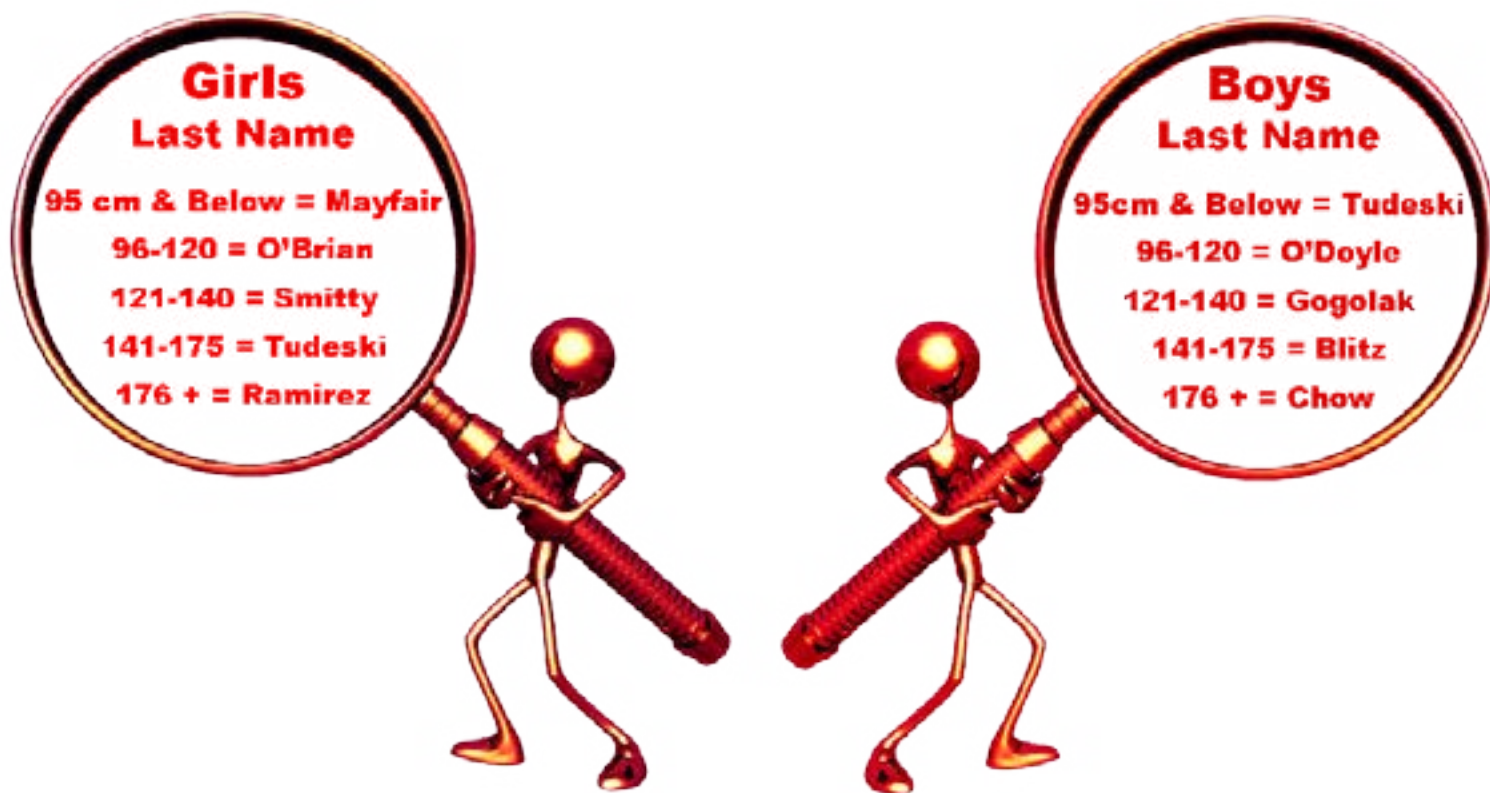
Boys
Middle Name

90 cm & Below = "Danger"

91-115 = "Babyface"

116-134 = "Two Tears"

135-170 = "Sweet Tooth"

171 + = "The Blade"

Use your *actual area* from Table 2 to find your last name!

My actual area is:

_____

Girls
Last Name

95 cm & Below = Mayfair

96-120 = O'Brian

121-140 = Smitty

141-175 = Tudeski

176 + = Ramirez

Boys
Last Name

95cm & Below = Tudeski

96-120 = O'Doyle

121-140 = Gogolak

141-175 = Blitz

176 + = Chow

My full biometrics alias is:

_____

Don't forget to introduce yourself!

Now that you have your biometric alias all figured out, head on over to our secret meeting at http://bit.ly/1aIylLf to introduce yourself using your snazzy new name. And don't worry, everyone at our secret meeting will surely be keeping a low profile!