

Data Collection and Analysis

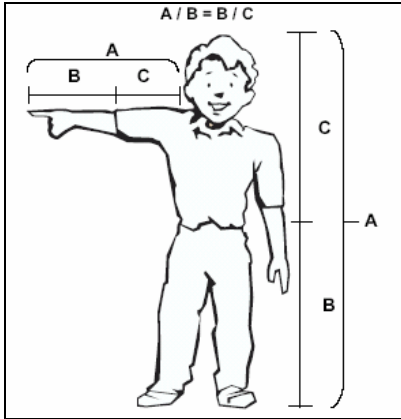
Follow the Golden Rule

Name _____

Date _____

Collecting the data

Before starting your data collection, make sure that the TI-83 Plus is set to its default and the lists are all cleared. Record your data in the table below. You may use inches or centimeters.



This ratio is approximately 1.618033989. The exact value of the Golden Ratio is $(1 + \sqrt{5}) / 2$

Distance head to navel	Distance navel to floor	Distance head to floor	Your Golden Ratio	Your Golden Ratio
Distance shoulder to elbow	Distance elbow to tip of hand	Distance shoulder to tip of hand	L3 ÷ L2	L2 ÷ L1
L1	L2	L3	L4	L5

With your TI-83, enter the data into lists. Go to \square , 1: Edit. Then, follow the screens below to enter your data. Your data will vary from the shown data.

```

EDIT | CALC TESTS
1:Edit...
2:SortA(
3:SortD(
4:ClrList
5:SetUpEditor
    
```

L1	L2	L3	1
29.25	42.25	66.5	
L1(2)=			

L3	L1	L5	4
66.5			
L4 = "L3/L2"			

L3	L4	L5	5
66.5	1.574		
L5 = "L2/L1"			

Return to the home screen by pressing ψ [QUIT].

To find the averages of L4 and L5, press ψ [LIST], MATH, 3: mean(.

```

NAMES OPS MATH
1:min(
2:max(
3:mean(
4:median(
5:sum(
6:prod(
7:stdDev(
    
```

```
mean(L4)
1.593267526
```

```
mean(L4)
1.593267526
mean(L5)
1.700414482
```

Why do you think your Golden Ratio is different? _____