

Human Osteology – ANTH 414
 Postcranial Skeletal Measurement Worksheet

Skeleton Number: _____

Date Measured: _____

Upper Appendage

Lower Appendage

	Left	Right		Left	Right
Clavicle			Femur		
Maximum Length	_____	_____	Maximum Length	_____	_____
Max. Diameter Midshaft	_____	_____	Bicondylar Width	_____	_____
Humerus			Epicondylar Breadth	_____	_____
Maximum Length	_____	_____	Maximum Diameter Head	_____	_____
Epicondylar breadth	_____	_____	Subtrochanteric A-P Diam	_____	_____
Max. Diameter Head	_____	_____	Subtrochanteric M-L Diam	_____	_____
Max. Diameter Midshaft	_____	_____	A-P Diameter Midshaft	_____	_____
Min. Diameter Midshaft	_____	_____	Transverse Diam Midshaft	_____	_____
Circumference Midshaft	_____	_____	Circumference Midshaft	_____	_____
Radius			Tibia		
Maximum Length	_____	_____	Maximum Length	_____	_____
Max. Head Diameter	_____	_____	A-P Diameter Midshaft	_____	_____
Ulna			M-L Diameter Midshaft	_____	_____
Maximum Length	_____	_____	Circumference Midshaft	_____	_____
			Fibula		
			Maximum Length	_____	_____
			Maximum Diameter Midshaft	_____	_____

Stature Estimates

1. Measurement(s) used: _____ Stature: _____
2. Measurement(s) used: _____ Stature: _____
3. Measurement(s) used: _____ Stature: _____
4. Measurement(s) used: _____ Stature: _____
5. Measurement(s) used: _____ Stature: _____

Overall Stature Estimate: _____

Sex Estimates

1. Femoral maximum head diameter: _____ (Bass p.231) Sex: _____
2. Humerus epicondylar breadth: _____ (Bass p.152) Sex: _____
3. Fordisc estimate from long bones Sex: _____
4. Japanese regression formula: _____ Sex: _____

Postcranial Sex Estimate: _____

Femoral Maximum Head Diameter (Bass p. 231)

Female	Possibly Female	Undetermined	Possibly Male	Male
< 42.5	42.5-43.5	43.5-46.5	46.5-47.5	> 47.5

Humerus Epicondylar Breadth (Bass p. 152)

Female-----	-----	Male
59.58		

Humerus Vertical Diameter (Bass p. 152)

Female	Undetermined	Male
< 43	44-46	> 47

Regression Formulae for Estimating Sex from Japanese Crania

	Formula 1	Formula 2
1. Maximum Length of Cranium (GOL)	1.000	1.000
2. Maximum Breadth of Cranium (XCB)	-0.062	0.221
3. Basion-Bregma (BBH)	1.865	
4. Bizygomatic Breadth (ZYB)	1.257	1.095
5. Upper Facial Height (UFHT)		0.504
Sectioning Point	579.960	380.840

Examples. Formula 1: $(1.000 \times \text{GOL}) - (0.062 \times \text{XCB}) + (1.865 \times \text{BBH}) + (1.257 \times \text{ZYB}) = 543.25 = \text{F}$

Formula 2: $(1.000 \times \text{GOL}) + (0.221 \times \text{XCB}) + (1.095 \times \text{ZYB}) + (0.504 \times \text{UFHT}) = 401.23 = \text{M}$