

<b>TPSA</b>	<b>Anthropology</b> Contest Answer Sheet	<b>Contest</b>	Regionals
		<b>Season</b>	2024

<b>ANSWER DOCUMENT</b>
Please return all Answer Documents to the Contest Governance Team Sealed in the Envelope it came in.

<b>COMPETITOR INFO</b>			
<b>Name</b>		<b>Chapter</b>	
		<b>Region #</b>	

<b>PART 1: BONE NAMING</b>			
<b>#</b>	<b>Bone Name</b>	<b>#</b>	<b>Bone Name</b>

## PART 2: IDENTIFICATION

### SEX DETERMINATION CHART

<b>Pelvis #:</b>		<b>Choose the correct answer for each characteristic:</b>	
<b>Subpubic Angle</b>	<input type="checkbox"/> < 90°	<input type="checkbox"/> > 90°	
<b>Greater Sciatic Notch</b>	<input type="checkbox"/> J Shaped	<input type="checkbox"/> C Shaped	
<b>Pelvic Inlet</b>	<input type="checkbox"/> Heart Shaped	<input type="checkbox"/> Round/Elliptical	
<b>Sacrum</b>	<input type="checkbox"/> Long & Narrow	<input type="checkbox"/> Short & Wide	
<b>Pelvis Size/Shape</b>	<input type="checkbox"/> Large & Narrow	<input type="checkbox"/> Short & Wide	
<b>Final Conclusion</b>	<input type="checkbox"/> Male	<input type="checkbox"/> Female	

### Formulas for Calculating Height

Bone	Male Equation	Female Equation
Femur	$2.32 * \text{length} + 65.53 \text{ cm}$	$2.47 * \text{length} + 54.13 \text{ cm}$
Fibula	$2.60 * \text{length} + 75.50 \text{ cm}$	$2.93 * \text{length} + 59.61 \text{ cm}$
Humerus	$2.89 * \text{length} + 78.10 \text{ cm}$	$3.36 * \text{length} + 57.97 \text{ cm}$
Radius	$3.79 * \text{length} + 79.42 \text{ cm}$	$4.74 * \text{length} + 54.93 \text{ cm}$
Tibia	$2.42 * \text{length} + 81.93 \text{ cm}$	$2.90 * \text{length} + 61.53 \text{ cm}$
Ulna	$3.76 * \text{length} + 75.55 \text{ cm}$	$4.27 * \text{length} + 57.76 \text{ cm}$

**\*\*NOTE:** These formulas are calculated for **ADULT** males and females. (from Bass, W.M. (1987) *Human Osteology: A Laboratory and Field Manual* (3rd ed.). Missouri Archeological Society, Columbia.)

<b>Bone #</b>	<b>Bone Name:</b>
<b>Calculations:</b> (show work)	<b>Answer:</b>

**These remains could potentially belong to:**  
(list all that may apply)

