

Anthropology Event

Bone List

- A random sampling of twenty bones will be chosen.
- Answers/Bones may be used more than once from the key.
- Only the "1st Rib" must be explicitly named from the Ribs, all other ribs can be answered with just "Rib".
- Bones marked with an (*) must be identified as left or right (ex: left femur instead of just femur)
- Formulas given below are the ones that competitors are expected to use.

1ST RIB	INTERMEDIATE CUNEIFORM	RIB(S)
CALCANEUS	LATERAL CUNEIFORM	SACRUM
CAPITATE	LUMBAR VERTEBRAE	SCAPHOID
CERVICAL VERTEBRAE	LUNATE	(*) SCAPULA
CLAVICLE	MANDIBLE	SKULL
COCCYX	METACARPAL	STERNUM
(*) COXAL	METATARSAL	TALUS
CUBOID	MEDIAL CUNEIFORM	THORACIC VERTEBRAE
DISTAL PHALANGES	MIDDLE PHALANGES	(*) TIBIA
(*) FEMUR	NAVICULAR	TRIQUETRAL
(*) FIBULA	PATELLA	TRAPEZIUM
HAMATE	PISIFORM	TRAPEZOID
(*) HUMERUS	PROXIMAL PHALANGES	(*) ULNA
HYOID	(*) RADIUS	

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.)

