

**General Formulas for Calculating Height (in cm)
(if you don't know race/ethnicity or gender)**

	General Equation (unknown ancestry or gender) (height in cm)
Femur	$2.71 \times \text{Femur} + 45.86 \text{ cm} \pm 4.49 \text{ cm}$
Tibia	$3.29 \times \text{Tibia} + 47.34 \text{ cm} \pm 4.15 \text{ cm}$
Fibula	$3.59 \times \text{Fibula} + 36.31 \text{ cm} \pm 4.10 \text{ cm}$
Ulna	$4.61 \times \text{Ulna} + 46.83 \text{ cm} \pm 4.97 \text{ cm}$
Radius	$3.78 \times \text{Radius} + 74.70 \text{ cm} \pm 5.01 \text{ cm}$
Humerus	$4.62 \times \text{Humerus} + 19.00 \text{ cm} \pm 4.89 \text{ cm}$

To solve the equation for height→

Value A x measured bone length + Value B = Basic Height (in cm)

The \pm value at the end would be **added** to the basic height to provide the upper range of height. The \pm value at the end would also be **subtracted** from the basic height to provide the lower range of height.