|  |  |  |  |
| --- | --- | --- | --- |
| BONE | RACE | MALE EQUATION | FEMALE EQUATION |

Caucasoid 2.32 x femur + 65.53 ± 3.94 cm 2.47 x femur + 54.10 ± 3.72 cm

Femur Negroid 2.10 x femur + 72.22 ± 3.91 cm 2.28 x femur + 59.76 ± 3.41 cm

Mongoloid 2.15 x femur + 72.57 ± 3.80 cm (Use Male)

Caucasoid 2.42 x tibia + 81.93 ± 4.00 cm 2.90 x tibia + 61.53 ± 3.66 cm

Tibia Negroid 2.19 x tibia + 85.36 ± 3.96 cm 2.45 x tibia + 72.56 ± 3.70 cm

Mongoloid 2.39 x tibia + 81.45 ± 3.24 cm (Use Male)

Caucasoid 2.60 x fibula + 75.50 ± 3.86 cm 2.93 x fibula + 59.61 ± 3.57 cm

Fibula Negroid 2.34 x fibula + 80.07 ± 4.02 cm 2.49 x fibula + 70.90 ± 3.80 cm

Mongoloid 2.40 x fibula + 80.56 ± 3.24 cm (Use Male)

Caucasoid 2.89 x humerus + 78.10 ± 4.57 cm 3.36 x humerus + 57.97 ± 4.45 cm

Humerus Negroid 2.88 x humerus + 75.48 ± 4.23 cm 3.08 x humerus + 64.67 ± 4.25 cm

Mongoloid 2.68 x humerus + 83.19 ± 4.16 cm (Use Male)

Caucasoid 3.76 x ulna + 75.55 ± 4.72 cm 4.27 x ulna + 57.76 ± 4.30 cm

Ulna Negroid 3.20 x ulna + 82.77 ± 4.74 cm 3.31 x ulna + 75.38 ± 4.83 cm

Mongoloid 3.48 x ulna + 77.45 ± 4.66 cm (Use Male)

Caucasoid 3.79 x radius + 79.42 ± 4.66 cm 4.74 x radius + 54.93 ± 4.24 cm

Radius Negroid 3.32 x radius + 85.43 ± 4.57 cm 3.67 x radius + 71.79 ± 4.59 cm

Mongoloid 3.54 x radius + 82.00 ± 4.60 cm (Use Male)

Calculating Height of Individuals:

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Using the correct formula for each of the bones below, calculate how tall the individual would have been, with the correct range of height (remember each formula gives you a + or - cm).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bone Description | Height |  | Bone Description | Height |
| Bone: Femur = 41 cm  Gender: Male  Race: Negroid |  |  | Bone: Femur = 43 cm  Gender: Female  Race: Negroid |  |
| Bone: Tibia = 37 cm  Gender: Female  Race: Negroid |  |  | Bone: Ulna = 26 cm  Gender: Male  Race: Mongoloid |  |
| Bone: Humerus = 31 cm  Gender: Male  Race: Caucasoid |  |  | Bone: Radius = 19 cm  Gender: Female  Race: Mongoloid |  |
| Bone: Ulna = 29 cm  Gender: Female  Race: Caucasoid |  |  | Bone: Tibia = 41 cm  Gender: Male  Race: Caucasoid |  |
| Bone: Radius = 25 cm  Gender: Male  Race: Mongoloid |  |  | Bone: Fibula = 38 cm  Gender: Female  Race: Caucasoid |  |
| Bone: Fibula = 35 cm  Gender: Female  Race: Mongoloid |  |  | Bone: Femur = 45 cm  Gender: Male  Race: Negroid |  |
| Bone: Humerus = 22 cm  Gender: Male  Race: Negroid |  |  | Bone: Tibia = 40 cm  Gender: Female  Race: Mongoloid |  |