

Proportional Worlds

When doing an archeological dig on Mars the 21st century scientists found a variety of artifacts including bones from a variety of different beings. In order to find out what the world of those different beings looked like they compared them to those of the Earth. The following information on the 6 different beings was all that they sent back to Earth. It is your job to find out what size these beings would have been. In order to do this you will have to measure at least 10 people in the room and get the averages needed to develop your hypothesis about these six people.

Being 1:



The measurement of the arm of this being from the shoulder to the wrist is $\frac{1}{5}$ the length of the length from the knee to the floor of the average Earth woman.

Being 2:



The measurement of this being's foot is 5 cm long.

Being 3:

The length of this being's leg from the knee to the floor is twice as long as $\frac{1}{5}$ the length of the average Earth woman's foot.

Being 4:



The measurement of the length of this being's hand from the wrist to the tip of the index finger is approximately 3 cm.

Being 5:



The length of this being's arm from the elbow to the wrist is approximately the same size as $\frac{1}{10}$ the length of the average human arm.

Being 6:



The distance around the ring finger of this being is approximately 1 cm.