

**Are You Perfectly Proportional?**

Being perfect is all about the numbers. Leonardo DaVinci agrees with Mr. Z. Back in the day, this famous painter and mathematician (bet you didn’t know he is one of the greatest mathematical minds of all times, did ya?) decided to put a standard on perfection. He stated that for someone to be perfect in terms of physique, one must have a certain number of ratios when comparing different parts of their body. He illustrated these ratios in the very popular, Vitruvian Man. In this activity, yourself and a partner will determine if you are, in fact, perfect!

**Information**: The Vitruvian Man is based off of the following ratios:

* Total height = 8 heads
* Hip height = 4 heads
* Total arm span = total height = 8 heads
* Elbow to fingertip = 2 heads
* Wrist to fingertip = 1 head

**Objective**: With a partner, measure the following in ***inches*** and record your results in the chart provided. Once finished, answer each question on the back to determine if you are in fact “perfectly proportional”.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Inches** | **Convert to Head measurement** | |
| **Total Height** |  |  |
| **Head Height** |  |  |
| **Hip Height** |  |  |
| **Arm Span** |  |  |
| **Elbow to Fingertip** |  |  |
| **Wrist to Fingertip** |  |  |

**Questions: Answer the questions in COMPLETE SENTENCES.**

1. What is the ratio of your head height to total height? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Does your own ratio come close to the ratio of the Vitruvian man?

2. What is the ratio of your head height to hip height? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How does it compare to the Vitruvian Man?

3. What is the ratio of your head height to arm span? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is it the same as the ratio to the total height?

4. What is the ratio of your head height to your elbow to fingertip length? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

How does it compare to the Vitruvian Man?

5. What is the ratio of your head height to the wrist to fingertip length? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is it the same?