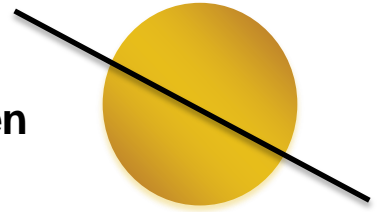


Name: _____

WWT Activity on the Golden Ratio and Golden Spiral



Instructions:

You will view a WWT tour about the Golden Ratio and Golden Spiral on your computer. When the tour stops, you will be told what to measure and write down. Please write your answers here.

1. Measuring the Golden Ratio on Saturn

A. How wide is the image of Saturn?

A

B. What is the distance between one edge of Saturn and the edge of the rings on the opposite side?

B

C. Divide the ring distance from question B by the width of the planet from question A.

$$\frac{\text{_____}}{B} \div \frac{\text{_____}}{A} = \frac{\text{_____}}{C}$$

D. Add the width of the planet from question A to the ring distance from question B.

$$\frac{\text{_____}}{A} + \frac{\text{_____}}{B} = \frac{\text{_____}}{D}$$

E. Divide the sum from question D by the ring distance from question

$$\frac{\text{_____}}{D} \div \frac{\text{_____}}{B} = \frac{\text{_____}}{E}$$

Did you find that:

$$\frac{B}{A} \approx \frac{D}{B} \approx 1.6 ?$$

If so, congratulations! You have found the Golden Ratio!