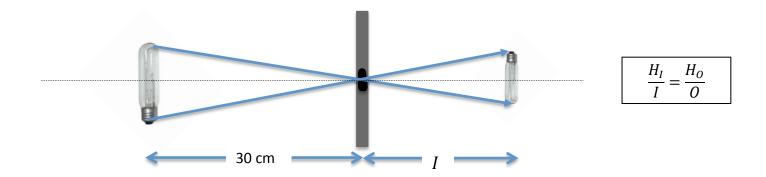
Name(s)			

PINHOLES AND TRIANGLES - PART 2, IMAGE SIZE How big is the image?



- 1. Measure the length of the filament in the bulb as carefully as you can. Record the filament length below.
- 2. Set up a small triangle or circle hole mask 30 cm from the light bulb filament.
- 3. How big will the image be if the screen is 20 cm on the other side of the mask? (Show your calculations on the back.)
- 4. After you finish your calculation, put the screen at 20 cm and measure the image. Fill in the table below with your calculated and measured value.
- 5. Repeat for more distances as instructed.

Length of filament (in cm)_____

	Calculated image size	Measured Image Size
I = 20 cm		
I = 40 cm		
<i>I</i> = 60 cm		