**Wearing Pi Activity**

**Kristen Casstevens & Crystal Espey**

**Materials**  
measuring tapes  
calculators  
hats with sizes indicated inside them

**To Do and Notice**  
Most hat sizes range between 6 and 8. Brainstorm ideas for how such sizes could be generated. Then use measuring tape to measure peoples’ heads. (As you do this, think of where a hat sits on a head). Use calculators to manipulate measurements. Now compare your results with the sizes written inside the hats. Do your numbers look like they could be hat sizes? (Hint: Try using different units of measurement.)

**What’s Going On?**Hat sizes must be related to the circumference of the head. The circumference of an adult’s head usually ranges between 21 and 25 inches. The head’s circumference divided by *pi* gives us the hat size.

 

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: March 14th!\_\_\_\_\_\_\_

**Wearing Pi Hat Activity**

**Directions:** Most hat sizes range between 6 and 8. Brainstorm ideas for how such sizes could be generated. Then use measuring tape to measure peoples’ heads and record your results in the chart below. Record your answers to five decimal places. (As you do this, think of where a hat sits on a head). Use calculators to manipulate measurements. Now compare your results with the sizes written inside the hats. Do your numbers look like they could be hat sizes? (Hint: Try using different units of measurement.)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Circumference (in.) | Hat Size | Ratio: C/Hat Size |
| Name: |  |  |  |
| Kristen | 22.5 | 7 1/8 | 3.15789 |
| Crystal | 22 | 7 | 3.14285 |
| Jacquelyn | 22.5 | 7 1/8 | 3.15789 |
| Nick P. | 24 | 7 5/8 | 3.14754 |
| Wes | 23.5 | 7 3/8 | 3.18644 |
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