

Student Guide for POW 17: Cutting the Pie

| | Max Score | Score |
|---|--------------|-------|
| 1. PROBLEM STATEMENT (6 pts) | | |
| a. Restate the situation of the POW in your own words | 4 | |
| b. Restate the question in your own words | 2 | |
| 2. PROCESS (10 pts) | | |
| a. Describe all the methods you tried before reaching your solution | 4 | |
| b. Provide all diagrams and sketches that you used for each method | 2 | |
| c. Describe any problems you had, and how you solved them | 2 | |
| d. Describe all assistance provided and how it helped you | 2 | |
| 3. SOLUTION (18 pts) | | |
| a. Draw an In-Out Table (number of cuts/max number pieces) for as many cuts as you determined | 4 | |
| b. Describe patterns using words and/or symbols that occur in your In-Out Table | 2 | |
| c. Describe the process that lead to solutions in your In-Out Table | 4 | |
| d. Describe why your answers for the In-Out Table are correct, include all supporting data and diagrams | 4 | |
| e. State your solution for the largest possible number of pieces from 10 cuts | 2 | |
| f. Describe why your solution for 10 cuts is correct | 2 | |
| 4. EVALUATION (8pts) | | |
| a. State the difficulty level of the problem (scale of 1-10), explain | 2 | |
| b. Describe your personal reaction/opinion to the problem | 2 | |
| c. Identify the best/worst parts of the problem 2 | 2 | |
| d. Describe how the problem could have been made better for you 2 | 2 | |
| 5. SELF-ASSESSMENT (8 pts) | | |
| a. Write a one paragraph summary of “what you learned from the problem” 4 | 4 | |
| b. Grade and Justify your work using a self-assessment scoring rubric 4 | 4 | |
| TOTAL SCORE | 50 | |