Name:

Date:

School:

Facilitator:

4.01 Polygons

**Answer the questions below for each image.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Description: 7c** | | **Description: 7d** | **Description: 200px-Complex_octagon** |
| 1. Is this figure a polygon?  **Answer the questions below only if the figure is a polygon.**  1a. Is this polygon concave or convex?  1b. Is this polygon regular, equiangular, equilateral, or none of these?  1c. What is the name of this polygon? | 2. Is this figure a polygon?  **Answer the questions below only if the figure is a polygon.**  2a. Is this polygon concave or convex?  2b. Is this polygon regular, equiangular, equilateral, or none of these?  2c. What is the name of this polygon? | | 3. Is this figure a polygon?  **Answer the questions below only if the figure is a polygon.**  3a. Is this polygon concave or convex?  3b. Is this polygon regular, equiangular, equilateral, or none of these?  3c. What is the name of this polygon? |
|  |  | |  |
| **Description: 200px-Irregular_octagon** | **Description: Concave_octagon**  **All sides are congruent.** | | **Description: reg 17**  **All sides and angles are congruent.** |
| 4. Is this figure a polygon?  **Answer the questions below only if the figure is a polygon.**  4a. Is this polygon concave or convex?  4b. Is this polygon regular, equiangular, equilateral, or none of these?  4c. What is the name of this polygon? | 5. Is this figure a polygon?  **Answer the questions below only if the figure is a polygon.**  5a. Is this polygon concave or convex?  5b. Is this polygon regular, equiangular, equilateral, or none of these?  5c. What is the name of this polygon? | | 6. Is this figure a polygon?  **Answer the questions below only if the figure is a polygon.**  6a. Is this polygon concave or convex?  6b. Is this polygon regular, equiangular, equilateral, or none of these?  6c. What is the name of this polygon? |
|  |  | |  |

7. Identify the term that does not belong with the other three. Explain your reasoning.

Square

triangle

circle

hexagon