**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due date:\_\_\_\_\_\_\_\_\_\_ Score:\_\_\_\_\_\_\_\_\_\_**

**Goal:** Use the Cartesian plane to plot the order pairs on the axis so a picture is generated by connecting the order pairs.

Step 1: Search and select any clip art using Google images. Select a picture that has least curve and most lines as it will be easier to generate.

Step 2: Using a graph paper and ruler, or computer software, create the same design by plotting points and connecting them with line segment. Try to use coordinate consisting of whole numbers. For example (2, 6), (-8, 4) etc.

Step 3: Once your picture is complete write down the order pair for each segment of the picture. Make sure the points are in chronological order so someone else can generate the same picture by plotting the points.

Step 4: Make a final copy using the order pairs from step 3. Color your work.

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| --- | --- | --- | --- | --- | --- |
| Image | Image generated is clearly identifiable.  All segments are proportional  **40 points** | Image generated is identifiable. Most segments are proportional.  **30 points** | Image generated is somewhat identifiable.  Some segments are proportional.  **20 points** | Image generated is not  Identifiable.  Few segments are proportional.  **10 points** |  |
| Oder pairs | Points are listed in sequence that can be used to regenerate the image. Each section is labeled  **40 points** | Points are listed in sequence but some points are missing or incorrect. Each section is labeled.  **30 points** | Points listed are not in sequence, some points are missing or incorrect. Each section is labeled.  **20 points** | Points listed are not in sequence, points are missing or incorrect. Each section is not labeled.  **10 points** |  |
| Neatness | Computer program is used to generate the picture. Picture is colored  **20 points** | Lines are neatly drawn with a ruler. Picture is colored  **15 points** | Lines drawn appear to be messy. Picture is not colored well.  **10 points** | Lines drawn appear to be messy. Picture is not colored.  **5 points** |  |
| Score: |  |  |  |  |  |