

Geometry

Quiz 6.5-6.6 Mon.

Mobile project

Due date: Tues. Beginning of Class

I. Required Elements 40 pts (2 pts. Each)

You may use any medium to illustrate each required element. You may show AT MOST two elements on any given piece or your mobile. Clearly label each element.

- Diagonal of a polygon
- Interior angles sum theorem
- Exterior angles sum theorem
- Parallelogram
- Rectangle
- Rhombus
- Square
- Isosceles Trapezoid (label base angles & legs)
- Regular hexagon
- Kite
- Octagon that is not regular
- Concave decagon
- Quadrilateral that is not a parallelogram, kite, or trapezoid
- Midsegment of a trapezoid
- parallelogram diagonals bisect each other
- rectangle diagonals are congruent
- rhombus diagonals are perpendicular
- Explain & demonstrate why a square is both a rhombus and a rectangle
- Illustrate two other properties or theorems from Ch. 6

PRESENTATION (10 pts.)

- Design (must use at least two levels)
- Neatness, balance, creativity
- Use of interesting materials
- Each element is clearly labeled

II. TECHNOLOGY/COMMUNICATIONS (10 pts.)

- Use a digital camera to take a picture of your project. Import the picture into a Word document. Re-size the picture to approximately 2x3 inches. Add a creative title above the picture.
- Write a brief description of your mobile. Include an explanation of how your mobile meets each of the requirements above. Also discuss the following:
 - Compare your mobile with your original design and ideas.
 - If you were to make another mobile, what would you do differently?
 - What tips would you give to someone who wants to build a mobile?
 - What do you like best about your mobile?
 - How can this project be improved?
- Turn in the integrated Word document (hard copy) with picture, title, and written discussion.

* Mobile Due Date: Tues. 1-14
* Written Due Date: Wed 1-15

CK 2/18/13

