Properties of Quadrilaterals: Internet Web Quest

Use the site below to navigate and answer the following questions. If you can not find all the properties on the given sites, you may navigate through other sites to answer the questions.

<http://www.math.com/homeworkhelp/Geometry.html>

<http://www.mathsisfun.com/quadrilaterals.html>

<http://www.livebinders.com/play/play/233941>

Define Polygon:

Give (draw) 3 non-examples:

Define Regular: (What is a regular polygon?)

Complete the following chart:

|  |  |
| --- | --- |
| Number of Sides | Polygon Name |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 12 |  |
| n |  |

Give the term for a triangle that has the following side lengths and angles:

no equal sides

2 equal

3 equal

one angle more than 90o

all angles under 90o

all angles 60o

one angle = 90o

For each of the quadrilaterals listed below, identify all the properties that they have from the given list:

1. Both pair of opposite sides are parallel

2. Only one pair of opposite sides are parallel

3. No parallel sides

4. Both pair of opposite sides equal

5. Only one pair of opposite sides are equal

6. Both pair of opposite angles are equal

7. Only one pair of opposite angles are equal

8. All angles are right angles

9. All four angles are equal

10. Diagonals bisect each other (meet at the midpoint)

11. Diagonals bisect opposite angles (cut the angles in half)

12. Diagonals are perpendicular

13. Diagonals are equal

Parallelogram

Rectangle

Rhombus

Square

Trapezoid Isosceles Trapezoid

Kite

**When you have discovered all the properties, then play at least two rounds of the game below!**

http://teams.lacoe.edu/documentation/classrooms/amy/geometry/6-8/activities/quad\_quest/quad\_quest.html