GEOMETRIC DICHOTOMOUS KEY
A.K.A. CHOOSE YOUR OWN SHAPEVENTURE

Instructions: Take a shape and go through the questions, following the instructions for the answer you provide each question. When you get to an underlined word, that is one of the names for the shape you are identifying. Continue until you do not have another "goto" instruction.

After you find all of the names for a shape, find it on a geometry template and copy it and *all* of its names into your blue book.

1 A) polygon with more than 3 sides – Goto 6 1 B) polygon with 3 sides – Goto 2
2 A) triangle with 3 sides equal? -- equilateral triangle 2 B) triangle with fewer than 3 sides equal? -- Goto 3
3 A) 2 sides equal? -- Goto 4 3 B) No sides equal? -- Goto 5
4 A) isosceles triangle has a right angle? -- right triangle 4 B) isosceles triangle does not have a right angle.
5 A) scalene triangle has a right angle? -- right triangle 5 B) scalene triangle does not have a right angle.
6 A) More than 4 sides? -- Goto 12 6 B) 4 sides? -- Goto 7
7A) quadrilateral has 2 sets of parallel sides? -- Goto 8 7 B) quadrilateral has less than two sets of parallel sides -- Goto 11
8 A) parallelogram has all four sides congruent? -- Goto 9 8 B) parallelogram 2 *sets* of congruent sides, but not all 4 -- Goto 10
9 A) rhombus has right angles? -- square (note, a square is also a rectangle)

9 B) rhombus has 2 separate sets of congruent angles.
10 A) parallelogram has right angles? – rectangle (note, a square is a rectangle) 10 B) parallologram has 2 sets of congruent angles – parallelogram
11 A) One set of parallel lines? -- trapezoid 11 B) No sets of parallel lines? -- quadrilateral
12 A) More than 5 sides? --Goto 14 12 B) 5 sides? -- Goto 13
13 A) pentagon with all sides and angles and angles congruent? -- regular pentagon 13 B) pentagon without all sides and angles congruent? -- irregular pentagon
14 A) More than 6 sides? -- Goto 16 14 B) 6 sides? -- Goto 15
15 A) hexagon with all sides and angles congruent? -- regular hexagon 15 B) hexagon without all sides and angles congruent? -- irregular hexagon
16 A) More than 7 sides? -- Goto 18 16 B) 7 sides – Goto 17
17 A) heptagon with all sides and angles congruent? -- regular heptagon 17 B) heptagon without all sides and angles congruent? -- irregular heptagon
18 A) More than 8 sides? -- n-gon where "n" is the number of sides 18 B) 8 sides? -- Goto 19
19 A) octagon with all sides and angles congruent? -- regular octagon 19 B) octagon without all sides and angles congruent? -- irregular octagon