

Name:

1. The reasoning below gives incorrect conclusion. Explain why.

“Hmmm. A decagon has ten sides. It takes two sides to make an angle of the decagon. There are *five* two’s in ten, so it seems that a decagon should have *five* angles, not ten.”

2. True or False:

- A square is a kite.
- A kite is a square.
- A right triangle is an isosceles triangle.
- A scalene triangle is an acute triangle.
- Everything which is true about trapezoids is also true for parallelograms and squares.
- Everything which is true about kites is also true for rhombuses.

3. A child once rejected a short, wide triangle as being a triangle because the shape was “too fat”. What might have led the child’s idea?