

True or False

Directions: Determine whether each statement is true or false. If it is false, explain why.

1. A square is also a rectangle.
2. A rectangle is also a square
3. A parallelogram is also a trapezoid.
4. All squares are also rhombi.

Can You Read Joe's Mind?

Directions: Joe is thinking of a specific polygon. He has listed some hints. As you read each hint, use deductive reasoning to try and guess Joe's polygon. By the last hint, you should be able to read Joe's mind.

Problem 1: What shape is it? _____

1. The polygon has four sides.
2. The polygon has at least one pair of parallel sides.
3. The polygon has at least one pair of congruent opposite sides.
4. The polygon does not have four congruent angles.
5. The polygon has four congruent sides.

Problem 2: What shape is it? _____

1. The shape has two pairs of parallel sides.
2. The shape has two pairs of congruent sides.
3. The shape has four right angles.
4. One pair of opposite sides is longer than the other pair.

Problem 3: What shape is it? _____

1. The shape has no congruent sides.
2. The shape has one pair of parallel sides.
3. The shape has no right angles.