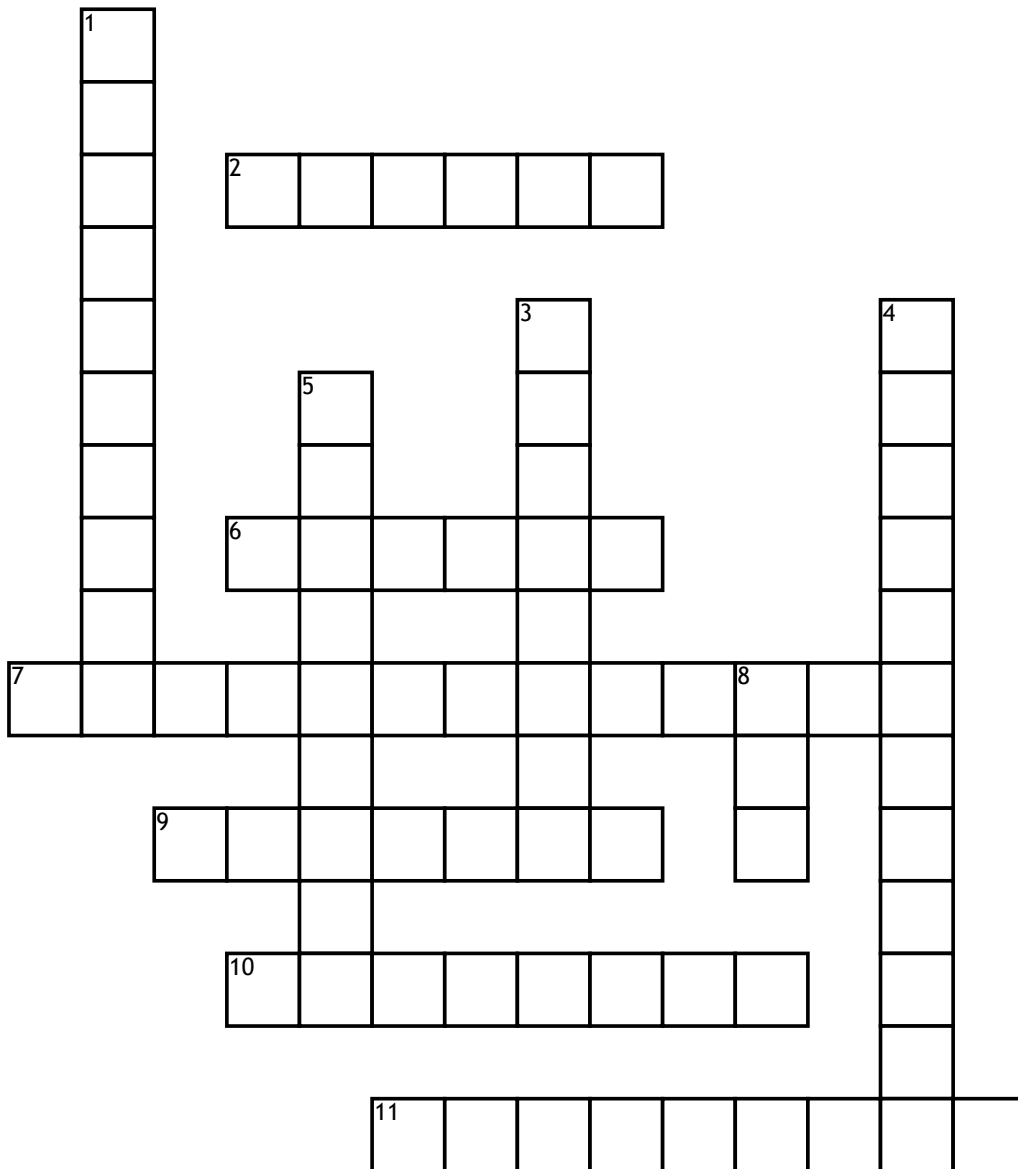


Geometry Puzzle



Across

2. Midpoint shows that diagonals _____ each other.
6. If two polygons are similar, then the ratio of their perimeters is equal to the _____ of their corresponding side lengths.
7. Slope shows that lines are parallel or _____.
9. In a 30-60-90 triangle, the hypotenuse is twice as long as the _____ leg.
10. $\tan A = \text{opposite leg} \div \text{_____ leg}$
11. I have four right angles and 2 pairs of opposite sides that are parallel. What am I?

Down

1. In a right triangle, the square of the length of the _____ is equal to the sum of the squares of the lengths of the legs.
3. $\sin A = \text{_____ leg} \div \text{hypotenuse}$.
4. When two polygons are similar, corresponding sides are _____.
5. I have exactly one pair of parallel sides and no congruent sides. What am I?
8. In a 45-45-90 triangle, the hypotenuse is $\sqrt{2}$ times as long as each _____.