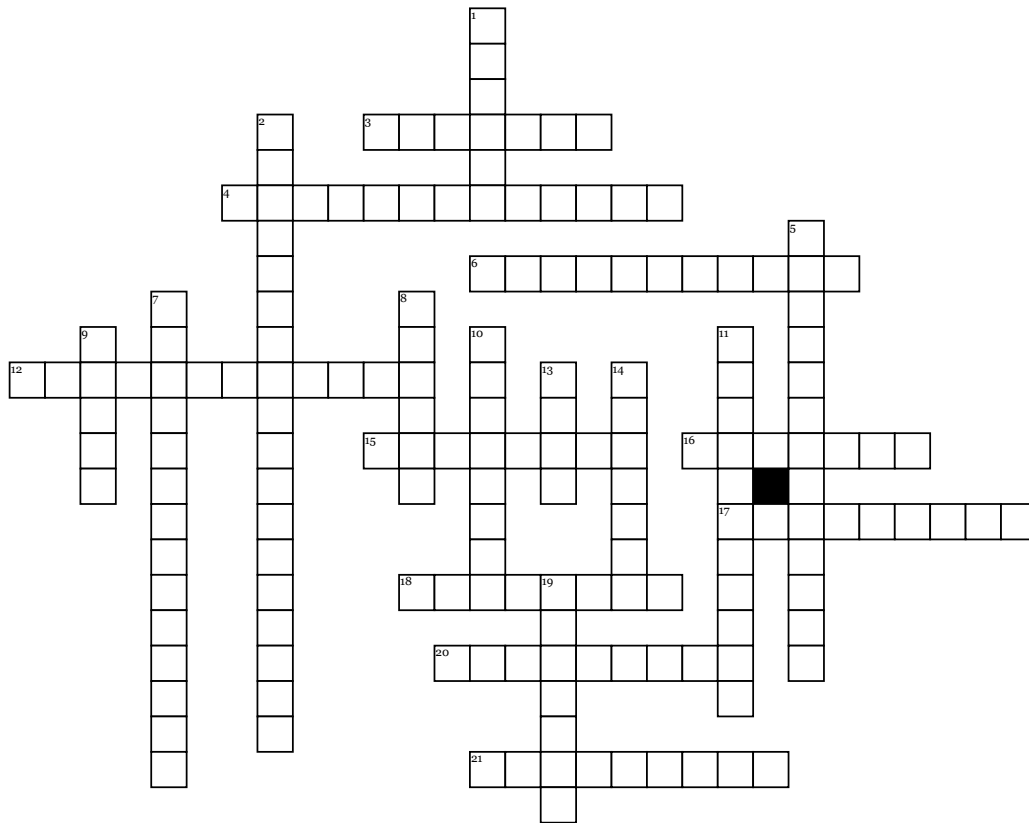# geometry puzzle

Across

3. A shape that has 10 sides is called a _____
4. Angle that adds up to 180 degrees
6. Moves every point of a figure the same distance in the same direction
12. the point where the three perpendicular bisectors of a triangle meet
15. A polygon with seven sides
16. A parallelogram in which diagonals bisect each other and are perpendicular
17. Vertical angles are always...
18. a point that divides a segment into 2 congruent segments
20. A parallelogram in which at least one angle is a right angle, diagonals bisect each other and are congruent
21. A triangle that has 2 congruent sides

Down

1. A parallelogram with all right angles, in which the diagonals bisect each other, are perpendicular, and congruent
2. Type of polygon that has all sides congruent
5. Angle that adds up to 90 degrees
7. Specific example that shows conjecture false
8. The intersection point of two sides of a plane figure
9. A logical argument that uses deductive reasoning to show that a statement is true
10. Where the three medians of a triangle intersect
11. The point where all three altitudes of a triangle meet
13. The sides adjacent to the right angle are called _____
14. A polygon with 9 sides
19. polygon with 8 sides

Word Bank

supplementary	legs	nonagon	equilateral polygon	midpoint
square	complimentary	proof	centroid	rectangle
octagon	counterexample	circumcenter	vertex	orthocenter
heptagon	decagon	rhombus	translation	isosceles
congruent				