## Quizlet

1. Alternate

| Exterior Angles | Angles that lay outside the parallel lines <br> and are on opposite sides of the <br> transversal; They are congruent. |
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| Theorem | 2. Alternate Interior |
| Angles that lie within a pair of lines and <br> Angles Theorem opposite side of a transversal. They <br> are congruent. |  |
| 3. Angle-Angle- | If two angles and a non-included side of |
| Side (AAS) | two triangles are congruent, then the |
| triangles are congruent. |  |

Theorem

4. Angle-Angle | If two angles of one triangle are |
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| Similarity (AA~) |
| congruent to two angles of another |
| triangle, then the triangles are similar. |
5. 

Corollary to the Converse of the Isosceles Triangle Theorem
2. Corollary to the Isosceles Triangle Theorem
21. Corresponding Angles Theorem
$\qquad$ СРСТС
3. Dilation
24. Distance from a Point to a Line
55. Enlargement
6. Equiangular Triangle
Equidistant
$\qquad$
29.

Extended Proportions
o. Hypotenuse
31. Hypotenuse-Leg (HL) Theorem
32. Indirect Measure
33. Isosceles Triangle Theorem
34. Leg of a right triangle
35. Legs of an Isosceles Triangle
6. Midsegment of a Triangle

Perpendicular Bisector Theorem
38. Reduction

If a triangle is equiangular, then the triangle is equilateral.

If a triangle is equilateral, then the triangle is equiangular.

If two parallel lines are cut by a transversal, then the pairs of corresponding angles are congruent.

Corresponding parts of congruent triangles are congruent.
A transformation that changes the size of an object, but not the shape.

The length of the perpendicular segment from the point to the line.
Dilating a figure so that it is larger (scale factor is greater than 1).

A triangle with three congruent angles.

The same distance apart at every point.
A triangle with three congruent sides.
Three or more ratios are equal.

The side opposite the right angle in a right triangle.
In a right triangle, if the hypotenuses and one of the legs of two triangles are congruent, then the triangles are congruent.
A method of measurement that uses formulas, similar figures, and/or proportions.
If two sides of a triangle are congruent, then the angles opposite those sides are congruent.
One of the two sides of the right triangle that form the right angle.

The two congruent sides of an isosceles triangle.
A segment connecting the midpoints of two sides of the triangle.

If a point is on the perpendicular bisector of a segment, then it is equidistant from the endpoints of the segment.

Dilating a figure so that it is smaller (Scale factor is between 0 and 1).

| 39. Same-Side Interior Angles Postulate | Two angles on one side of a transversal, and on the inside of the two parallel lines being intersected. The two angles are supplementary. |
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| 40. Scale | The ratio that compares each length in the scale drawing to the actual length. |
| 4. Scale Drawing | A drawing that is similar to an actual object, or place. Floor plans, blue prints, and maps are all examples of scale drawings. |
| 42. Scale Factor | The ratio of any two corresponding lengths in two similar geometric figures. |
| 43. Side-Angle-Side (SAS) Postulate | If two sides and the included angle of two triangles are congruent, then the triangles are congruent. |
| 44. Side-Angle-Side Similarity (SAS~) Postulate | If an angle of one triangle is congruent to an angle of a second triangle, and the sides that include the two angles are proportional, then the triangles are similar. |
| 45. Side-Side-Side Similarity (SSS~) Postulate | If the corresponding sides of two triangles are proportional, then the triangles are similar. |
| 46. Side-Side-Side (SSS) Postulate | If three corresponding sides of two triangles are congruent, then the triangles are congruent. |
| 47. Side-Splitter Theorem | If a line is parallel to one side of a triangle and intersects the other two sides, then it divides those sides proportionally. |
| 48. Similar Figures | Figures that have the same shape but not necessarily the same size. |
| 49. Similar Polygons | Polygons that have the same shape, but not necessarily the same size. Corresponding sides of similar polygons are proportional. |
| 50. Theorem 22 | If a line bisects the vertex angle of an isosceles triangle, then the line is also the perpendicular bisector of the base. |
| 51. Triangle-Angle-Bisector Theorem | If a ray bisects an angle of a triangle, then it divides the opposite side into two segments that are proportional to the other two sides of the triangle. |
| 52. Triangle Midsegment Theorem | If a segment joins the midpoints of two sides of a triangle, then the segment is parallel to the third side and is half as long. |
| 53. Vertex Angle of an Isosceles Triangle | The angle between the two congruent sides (legs) of an isosceles triangle. |

