

Crazy Quick EOC Geometry Review

Transformations

igid Motion: Congruent and Similar

Translation (slide), Reflection (flip), Rotation (turn)

Dilation: Similar ONLY (not congruent) - Rational

Sides Proportional, Angles Same

All Circles are Similar

the ratio of the diameter to circumference same
translate center, dilate radius, new radius/old

Center of dilation - connect the centers A-A' - intersection

Rotational Symmetry: regular polygon sides equal

Take 360 then divide by the number of sides

Then mult x3, x4, x5 etc... 360/6 = 60, 120, 180, 240, 300

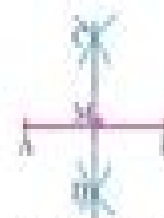
Constructions

Angle Bisector



Divides angle in half
Each mini angle is half
the larger angle

Perpendicular Bisector



Divides the line in half
Creates right angles

Similarity, Congruence, Proofs



Similarity: make sure the lines match: roof to roof

Scale factor = new/old Proportion new/old or old/new

Sides Proportional, Angles Same

Proof Theorems

Vertical angles - congruent (bow tie)

Alternate interior/exterior - congruent (parallel, congruent)

Corresponding - congruent (parallel, similar)

Perpendicular bisector - right angles, divide segment

Midpoint - divides line into congruent statements

Isosceles triangle - base angles, opp sides congruent

Midsegment - divides two sides, parallel to third side

Definition: congruence, similarity, proof

Parallelogram Facts

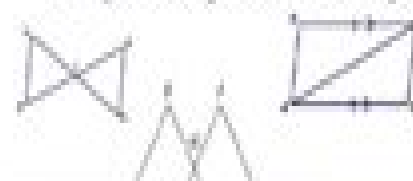
Opposite sides congruent

Opposite angles congruent

Diagonal bisect each other

If diagonals bisect then parallelogram

If diagonals congruent then rectangle



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