

Study Guide for 2015 Geometry Honors Mid-Year Examination
given by Mr. Baroody

Format

- 15 True/False questions @ 1 point each – 15 points total
- 10 Always/Sometimes/Never questions @ 1 point each – 10 points total
- 20 Matching questions @ 1 point each – 20 points
- 30 Multiple Choice questions @ 1 point each – 30 points
- 2 Open-ended questions @ 3 points each – 6 points
- 3 Proofs / Do any 2 @ 10 points each – 20 points

Total of 101 points

Responsibilities

- All tests and quizzes
- Class notes and homework assignments
- Review problems
- All vocabulary introduced during the semester

Suggested study guides and activities

- Use topic and vocabulary sheets that are attached
- Look over all tests and quizzes and make sure you can do **all** the problems on them (whether you got them correct the first time or not!)
- Look over review problems for Chapters 1-6, 7.1 & 7.2
- Try some problems from the Cumulative Review for Chapters 1-3
- Try some problems from the Cumulative Review for Chapters 1-6
- Utilize extra help sessions!

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Topics for Mid-Year Examination

- Geometry related vocabulary
- Measurement of Segments and Angles (Degrees and Degrees, Minutes, Seconds)
- Chain of reasoning
- Proof Structure
- Probability
- Perpendicularity
- Complementary and Supplementary Angles
- Subtraction & Addition Properties of Angles and Segments
- Multiplication & Division Properties of Angles and Segments
- Transitive Property of Congruent Angles and Segments
- Vertical Angle Theorem
- Triangle Congruence (SSS, SAS, ASA, HL)
- CPCTC
- Types of Triangles
- Triangle Inequality Theorem
- Proving Triangles Congruent (including Overlapping Triangles)
- Isosceles Triangle Theorem
- Basic Properties of Circles
- Indirect Proof
- Right Angle Theorem
- Equidistance Theorem
- Exterior Angle Theorem
- Perpendicular Bisector Theorems
- Parallelism
- Parallel Line Theorems
- Quadrilaterals
- Properties of Quadrilaterals
- Three-Dimensional Concepts and Proofs
- Perpendicularity Among Lines and Planes
- Perpendicular and Parallel Planes
- Sum of the angles of a triangle
- No Choice and AAS Theorems

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| Terms | More terms | Still more terms!!! |
|------------------------------|-----------------------------------|-------------------------------|
| 1. Acute angle | 35. Included angle | 69. Postulate |
| 2. Adjacent angles | 36. Included side | 70. Quadrilateral |
| 3. Alternate interior angles | 37. Interior angle | 71. Ray |
| 4. Altitude | 38. Interior points | 72. Rectangle |
| 5. Angle | 39. Intersecting lines | 73. Reflexive property |
| 6. Angle bisector | 40. Intersecting planes | 74. Regular |
| 7. Base angles | 41. Isosceles triangle | 75. Remote interior angles |
| 8. Bisect | 42. Kite | 76. Rhombus |
| 9. Coincide | 43. Leg of an isosceles triangle | 77. Right angle |
| 10. Collinear | 44. Leg of a right triangle | 78. Right triangle |
| 11. Complementary | 45. Line | 79. Same side interior angles |
| 12. Concave polygon | 46. Line perpendicular to a plane | 80. Scalene triangle |
| 13. Conclusion | 47. Line segment | 81. Skew lines |
| 14. Congruent parts | 48. Measure of a segment | 82. Space |
| 15. Congruent triangles | 49. Measure of an angle | 83. Square |
| 16. Consecutive angles | 50. Median of a triangle | 84. Substitution Postulate |
| 17. Consecutive sides | 51. Midpoint | 85. Supplementary angles |
| 18. Converse | 52. Non-collinear | 86. Symmetric |
| 19. Convex polygon | 53. Non-coplanar | 87. Theorem |
| 20. Coplanar | 54. Nonagon | 88. Transitive Property |
| 21. Corresponding angles | 55. Oblique | 89. Transversal |
| 22. Corresponding parts | 56. Obtuse | 90. Triangle |
| 23. Decagon | 57. Octagon | 91. Undefined terms |
| 24. Diagonal | 58. Opposite rays | 92. Unique |
| 25. Equiangular triangle | 59. Parallel lines | 93. Vertex |
| 26. Equidistant | 60. Parallel planes | 94. Vertical angles |
| 27. Equilateral triangle | 61. Parallelogram | |
| 28. Exterior angles | 62. Pentagon | |
| 29. Exterior points | 63. Perpendicular bisector | |
| 30. Foot | 64. Perpendicular lines | |
| 31. Heptagon | 65. Perpendicular planes | |
| 32. Hexagon | 66. Plane | |
| 33. Hypotenuse | 67. Point | |
| 34. Hypothesis | 68. Polygon | |