

INTUITIVE GEOMETRY
SEMESTER 1 EXAM ITEM SPECIFICATION SHEET & KEY



| Free Response | | | | | |
|------------------------|--|---------------------------|--------------------------|---------------------|------------------|
| # | Objective | Syllabus Objective | NV State Standard | | |
| 1 | Distinguish among the properties of various quadrilaterals. | 7.1 | 4.12.1 | | |
| 2 | Classify triangles by angle or side measure. | 6.1 | 4.12.7 | | |
| 3 | Construct geometric figures involving lines and angles. | 4.12 | 4.12.8 | | |
| Multiple Choice | | | | | |
| # | Objective | Syllabus Objective | NV State Standard | Practice Key | Final Key |
| 1 | Classify pairs of angles. | 4.7 | 4.12.6 | C | |
| 2 | Classify pairs of angles. | 4.7 | 4.12.6 | D | |
| 3 | Solve angle-measure problems. | 4.10 | 4.12.6 | C | |
| 4 | Formulate strategies for determining distance between two points. | 5.1 | 4.12.6 | B | |
| 5 | Formulate strategies for determining distance between two points. | 5.1 | 3.12.3 | D | |
| 6 | Formulate strategies for determining the midpoint of a segment. | 5.3 | 3.12.3 | C | |
| 7 | Explore geometric or algebraic relationships using patterns. | 1.5 | 4.12.9 | B | |
| 8 | Compare deductive and inductive arguments. | 3.8 | 4.12.9 | A | |
| 9 | Compare deductive and inductive arguments. | 3.8 | 4.12.9 | D | |
| 10 | Solve problems using postulates & theorems related to parallel and perpendicular lines. | 4.3 | 4.12.6 | A | |
| 11 | Solve problems using postulates & theorems related to parallel and perpendicular lines. | 4.3 | 4.12.6 | C | |
| 12 | Solve problems using postulates & theorems related to parallel and perpendicular lines. | 4.3 | 4.12.6 | C | |
| 13 | Explore conditions which guarantee parallel and perpendicular lines. | 4.5 | 4.12.6 | D | |
| 14 | Justify conclusions to problems on parallel & perpendicular lines using postulates and theorems. | 4.4 | 4.12.9 | A | |
| 15 | Classify triangles by angle or side measure. | 6.1 | 4.12.1 | C | |
| 16 | Solve problems involving angles of a triangle. | 6.5 | 4.12.6 | B | |
| 17 | Solve and prove problems using the theorems and postulates for congruence. | 6.15 | 4.12.9 | D | |
| 18 | Solve and prove problems using the theorems and postulates for congruence. | 6.15 | 4.12.9 | A | |
| 19 | Solve and prove problems using the theorems and postulates for congruence. | 6.15 | 4.12.6 | B | |
| 20 | Solve and prove problems using corresponding parts of congruent triangles. | 6.14 | 4.12.1 | B | |
| 21 | Solve and prove problems using corresponding parts of congruent triangles. | 6.14 | 4.12.9 | C | |
| 22 | Solve problems involving angles of a triangle. | 6.5 | 4.12.1 | A | |
| 23 | Recognize the relationship between sides and angles of a triangle. | 6.2 | 4.12.7 | D | |
| 24 | Verify that three given sides form a triangle. | 6.3 | 4.12.7 | B | |
| 25 | Classify polygons. | 8.1 | 4.12.1 | B | |
| 26 | Classify polygons. | 8.1 | 4.12.1 | D | |

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| Multiple Choice | | | | | |
|------------------------|---|---------------------------|--------------------------|---------------------|------------------|
| # | Objective | Syllabus Objective | NV State Standard | Practice Key | Final Key |
| 27 | Solve problems involving the sum of interior angles of a given polygon. | 8.3 | 4.12.6 | C | |
| 28 | Solve problems relating to properties of quadrilaterals using algebraic techniques. | 7.3 | 4.12.1 | B | |
| 29 | Develop strategies for finding the measures of an interior angle of a given regular polygon. | 8.2 | 4.12.6 | A | |
| 30 | Explore relationships within each quadrilateral. | 7.2 | 4.12.1 | D | |
| 31 | Distinguish among the properties of various quadrilaterals. | 7.1 | 4.12.1 | C | |
| 32 | Solve problems relating to properties of quadrilaterals using algebraic techniques. | 7.3 | 4.12.6 | B | |
| 33 | Develop strategies for finding the measures of an interior angle of a given regular polygon. | 8.2 | 4.12.6 | B | |
| 34 | Recognize the relationship between sides and angles of a triangle. | 6.2 | 4.12.1 | A | |
| 35 | Explore geometric or algebraic relationships using patterns. | 1.5 | 4.12.9 | C | |
| 36 | Compose examples of deductive reasoning in real-world situations. | 3.6 | 4.12.9 | B | |
| 37 | Formulate strategies for determining the slope of a line. | 5.2 | 4.12.5 | B | |
| 38 | Distinguish among the properties of various quadrilaterals. | 7.1 | 4.12.1 | A | |
| 39 | Explore relationships within each quadrilateral. | 7.2 | 4.12.1 | A | |
| 40 | Compose examples of deductive reasoning in real-world situations. | 3.6 | 4.12.9 | C | |
| 41 | Distinguish between a hypothesis and the conclusion of a conditional statement. | 3.1 | 4.12.9 | A | |
| 42 | Identify parallel, perpendicular and intersecting lines using slope. | 4.1 | 4.12.5 | C | |
| 43 | Identify parallel, perpendicular and intersecting lines using slope. | 4.1 | 4.12.5 | D | |
| 44 | Propose a conclusion from given information. | 3.5 | 4.12.9 | D | |
| 45 | Distinguish among the various terms associated with an angle. | 4.6 | 4.12.1 | A | |
| 46 | Justify conclusions to problems using the theorems related to angles. | 4.11 | 4.12.1 | A | |
| 47 | Justify conclusions to problems using the theorems related to angles. | 4.11 | 4.12.1 | B | |
| 48 | Develop accuracy using geometric tools. | 2.5 | 3.12.3 | C | |
| 49 | Distinguish among the median, altitude, angle bisector, and perpendicular bisector of a triangle. | 6.7 | 4.12.1 | D | |
| 50 | Distinguish among the median, altitude, angle bisector, and perpendicular bisector of a triangle. | 6.7 | 4.12.1 | D | |