

MATHEMATICS

INTERNATIONAL MATHEMATICS I 121430001

| COMPONENT | OBJECTIVES | COMPETENCY |
|------------|--|--|
| I Geometry | Apply properties of spheres to real-life situations. (MA.C.3.4.1) | A. Solve problems and prove assertions involving plane and solid figures. |
| | 2. Use properties of transformations to deduce properties of polygons. (MA.C.2.4.1) | |
| | 3. Develop criteria for similarity and congruence of figures. (MA.C.2.4.1) | |
| | 4. Use properties of similar polygons to solve problems. (MA.C.3.4.1) | |
| | 5. Define and use trigonometric functions to solve problems. (MA.C.3.4.1) | |
| | 6. Use trigonometric functions to solve problems involving projections. (MA.C.3.4.1) | |
| | 7. Use the Pythagorean theorem and its converse to solve problems. (MA.C.3.4.1) | |
| | 8. Develop properties of geometric figures inductively and deductively. (MA.C.1.4.1) | |
| | | |
| | | |
| II Algebra | 1. Use proportional thinking to solve real-life problems. (MA.C.3.4.1) | A. Use variables and algebraic expressions to a. Represent concrete situations |
| | 2. Develop equivalent equations for proportions. (MA.C.3.4.1) | b. Generalize results c. Describe functions |
| | 3. Interpret graphs and use them to represent situations. (MA.C.3.4.2) | |
| | | |



MATHEMATICS

INTERNATIONAL MATHEMATICS I 121430001

| | OBJECTIVES | COMPETENCY |
|--|---|---|
| 5. 6. 7. 8. III Statistics and Probability 1. 2. 3. 4. | (MA.A.3.4.2) Solve systems of equations using various methods, including technology. (MA.D.2.4.1) Fit equations to data, using technology. Solve problems involving motion using linear equations. (MA.D.2.3.2) Construct area models to represent probabilistic situations. Develop basic methods for calculating probabilities. (MA.E.2.4.1) | A. Construct and draw inferences from graphs, tables and charts that summarize data from real world situations. |



MATHEMATICS

INTERNATIONAL MATHEMATICS I 121430001

| COMPONENT | OBJECTIVES | COMPETENCY |
|----------------------|--|------------------------------|
| IV Logical reasoning | Make and test conjectures. | A. Follow logical arguments. |
| | 2. Construct logical arguments for conjectures that have been developed. | |
| | 3. Formulate counterexamples. | |
| | 4. Develop and describe algorithms. | |
| | 5. Justify mathematical reasoning. | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Volume I - Page 588

3 of 3