



It is expected that students will develop the following competencies after studying the syllabus of Mathematics Part I in Standard IX

| Area | Topic | Competency statement |
|--------------------------------------|---------------------------------------|--|
| 1. Knowledge of Numbers | 1.1 Sets | Students will be able to – <ul style="list-style-type: none">● know the different sets of numbers in the number system.● determine the subset relation between pairs of sets.● identify finite and infinite sets.● use Venn diagrams to show relation between different sets.● construct examples on sets.● understand that every point on a number line is associated with a real number.● identify the surds of order two and perform mathematical operations on them. |
| | 1.2 Real numbers and quadratic surds | |
| 2. Algebra | 2.1 Polynomial | <ul style="list-style-type: none">● identify polynomials and do operations on them.● solve word problems using two variables. |
| | 2.2 Linear equations in two variables | |
| 3. Commercial Mathematics | 3.1 Financial planning | <ul style="list-style-type: none">● know about the tax system and compute taxes.● compute income tax for salaried persons.● use theorem on equal ratios.● solve word problems based on direct and inverse variation. |
| | 3.2 Ratio and proportion | |
| 4. Data handling (Statistics) | 4.1 Frequency distribution | <ul style="list-style-type: none">● prepare grouped and ungrouped frequency distribution tables.● prepare cumulative frequency tables.● find and make use of measures of central tendencies for the given data. |
| | 4.2 Measures of central tendency | |



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