

Grade 11 Consumer Mathematics (1999)	Grade 11 Essential Mathematics (2009)
Solve problems using a variety of non-algebraic approaches (A3-1) Solve problems using a variety of non-algebraic approaches (A4-1)	11E3.A.1. Analyze puzzles and games that involve numerical reasoning, using problem-solving strategies. [C, CN, PS, R] 11E4.A.1. Analyze puzzles and games that involve numerical reasoning, using problem-solving strategies. [C, CN, PS, R]
Demonstrate the use of an appropriate strategy in solving puzzles and playing games involving patterns (B3-1) Demonstrate the use of an appropriate strategy in solving puzzles and playing games involving patterns (B4-1)	11E3.A.1. Analyze puzzles and games that involve numerical reasoning, using problem-solving strategies. [C, CN, PS, R] 11E4.A.1. Analyze puzzles and games that involve numerical reasoning, using problem-solving strategies. [C, CN, PS, R]
Be aware of how numbers are used throughout society. (B3-2) Be aware of how numbers are used throughout society. (B4-2)	
Express a linear relation of the form $y = mx$ <ul style="list-style-type: none"> • in words • as a formula • with a table of values • as a graph (C3-1)	11E4.R.5. Demonstrate an understanding of linear relations by: <ul style="list-style-type: none"> • recognizing patterns and trends • graphing • creating tables of values • writing equations • interpolating and extrapolating • solving problems. [CN, PS, R, T, V]
Interpolate within and extrapolate values from the graph of a linear relation (C3-2)	11E4.R.5. Demonstrate an understanding of linear relations by: <ul style="list-style-type: none"> • recognizing patterns and trends • graphing • creating tables of values • writing equations • interpolating and extrapolating • solving problems. [CN, PS, R, T, V]
Determine the slope of a linear relation and describe it in words (C3-3)	11E4.R.1. Demonstrate an understanding of slope: <ul style="list-style-type: none"> • as rise over run • as rate of change • by solving problems. [C, CN, PS, V]

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Express a linear relation of the form $y = mx + b$ <ul style="list-style-type: none"> • in words • as a formula • with a table of values • as a graph (C3-4)	11E4.R.5. Demonstrate an understanding of linear relations by: <ul style="list-style-type: none"> • recognizing patterns and trends • graphing • creating tables of values • writing equations • interpolating and extrapolating • solving problems. [CN, PS, R, T, V]
Interpret the graph of a relation and describe it in words (C3-5)	11E4.R.5. Demonstrate an understanding of linear relations by: <ul style="list-style-type: none"> • recognizing patterns and trends • graphing • creating tables of values • writing equations • interpolating and extrapolating • solving problems. [CN, PS, R, T, V]
Construct a graph of a relation from its description in words (C3-6)	11E4.R.5. Demonstrate an understanding of linear relations by: <ul style="list-style-type: none"> • recognizing patterns and trends • graphing • creating tables of values • writing equations • interpolating and extrapolating • solving problems. [CN, PS, R, T, V]
Evaluate formulas (C3-7)	11E3.I.3. Solve problems that require the manipulation and application of formulas related to: <ul style="list-style-type: none"> • simple interest • finance charges. [CN, PS, R] 11E3.G.3. Solve problems that require the manipulation and application of formulas related to: <ul style="list-style-type: none"> • volume and capacity • surface area [CN, PS, R] 11E4.R.3. Solve problems that require the manipulation and application of formulas related to slope and rate of change. [CN, PS, R]
Solve problems involving performance-based income (D3-1)	

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Use simple and compound interest calculations to solve problems (D3-2)	11E3.I.1. Demonstrate an understanding of compound interest. [CN, ME, PS, T]
Solve problems involving credit-card buying (D3-3)	11E3.I.2. Demonstrate an understanding of credit options, including: • credit cards • loans. [CN, ME, PS, R]
Solve problems involving personal loans (D3-4)	11E3.I.2. Demonstrate an understanding of credit options, including: • credit cards • loans. [CN, ME, PS, R]
Display and analyze data on a line plot (E3-1)	11E3.S.1. Solve problems that involve creating and interpreting graphs, including: • bar graphs • histograms • line graphs • circle graphs [C, CN, PS, R, T, V]
Use measures of central tendency to support decisions (E3-2)	
Manipulate the presentation of data to represent a point of view (E3-3)	
Develop linear estimation skills for at least two systems of measurement (C4-1)	
Use various measuring devices to obtain linear measurements in both Imperial and SI systems (C4-2)	
Perform basic conversions within both the Imperial and SI systems (C4-3)	
Use measurement strategies to solve problems (C4-4)	
Describe the methods of acquiring a vehicle (D4-1)	
Solve problems involving the purchase and operation of a vehicle (D4-2)	
Prepare an income tax form for an individual who is single, employed, and without dependents (E4-1)	
Express probabilities as ratios, fractions, decimals, percents, and in words (F4-1)	

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Use probability to predict the result in a given situation (F4-2)	
Determine the odds for and against a particular event occurring (F4-3)	
Analyze a sample interdisciplinary relationship between probability and a scientific model (F4-4)	
Use probabilities to calculate expected gains and losses (F4-5)	
Communicate and justify solutions to probability problems (F4-6)	
	11E3.G.1. Solve problems that involve SI and imperial units in surface area measurements. [C, CN, ME, PS, V]
	11E3.G.2. Solve problems that involve SI and imperial units in volume and capacity measurements. [C, CN, ME, PS, V]
	11E4.M.1. Solve problems that involve personal budgets. [CN, PS, R, T]
	11E4.M.2. Demonstrate an understanding of financial institution services used to access and manage finances. [C, CN, R, T]
	11E4.R.2. Solve problems by applying proportional reasoning and unit analysis. [C, CN, PS, R]
	11E4.R.4. Solve problems that involve scale. [PS, R, T, V]
	11E4.TG.1. Solve problems that involve two and three right triangles. [CN, PS, T, V]
	11E4.D.1. Model and draw 3-D objects and their views. [CN, R, V]
	11E4.D.2. Draw and describe exploded views, component parts and scale diagrams of simple 3-D objects. [CN, V]