

Grade 12 Consumer Mathematics (1999)	Grade 12 Essential Mathematics (2009)
Explain and solve problems using a variety of non-algebraic approaches (A5-1) Explain and solve problems using a variety of non-algebraic approaches (A6-1)	12E5.A.1. Analyze puzzles and games that involve logical reasoning, using problem-solving strategies. [C, CN, PS, R] 12E6.A.1. Analyze puzzles and games that involve logical reasoning, using problem-solving strategies. [C, CN, PS, R]
Describe the approach and the mathematics used in solutions to problems or activities (A5-2) Describe the approach and the mathematics used in solutions to problems or activities (A6-2)	12E5.A.1. Analyze puzzles and games that involve logical reasoning, using problem-solving strategies. [C, CN, PS, R] 12E6.A.1. Analyze puzzles and games that involve logical reasoning, using problem-solving strategies. [C, CN, PS, R]
Demonstrate the use of an appropriate strategy in solving puzzles and playing games involving patterns (B5-1) Demonstrate the use of an appropriate strategy in solving puzzles and playing games involving patterns (B6-1)	12E5.A.1. Analyze puzzles and games that involve logical reasoning, using problem-solving strategies. [C, CN, PS, R] 12E6.A.1. Analyze puzzles and games that involve logical reasoning, using problem-solving strategies. [C, CN, PS, R]
Explain how numbers are used throughout society to designate, categorize, or order things and events (B5-2) Explain how numbers are used throughout society to designate, categorize, or order things and events (B6-2)	
Solve problems involving different types of insurance (C5-1)	12E6.H.1. Solve problems involving the purchase and maintenance of a house. [C, CN, ME, R, T]
Solve problems involving mortgages (C5-2)	12E6.H.1. Solve problems involving the purchase and maintenance of a house. [C, CN, ME, R, T]
Describe the costs involved in purchasing a home (C5-3)	12E6.H.1. Solve problems involving the purchase and maintenance of a house. [C, CN, ME, R, T]
Interpret the Gross Debt Service Ratio to determine the economic feasibility of a home purchase (C5-4)	12E6.H.1. Solve problems involving the purchase and maintenance of a house. [C, CN, ME, R, T]
Draw simple objects as oblique projections (D5-1)	
Sketch simple objects in "exploded" format (D5-2)	
Draw the constituent parts of a simple object to scale (D5-3)	
Describe the differences among oblique projections, "exploded" diagrams, and constituent parts diagram for objects (D5-4)	

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Solve problems involving estimation and costing for objects, shapes, or processes when a design is given (D5-5)	
Plan the construction of an object within a specified budget (D5-6)	
Interpret, based on charts or tables, the largest expenditures for each of the three levels of government (E5-1)	
Interpret, based on charts or tables, major sources of revenue for federal, provincial, and municipal levels of government (E5-2)	
Solve and explain the solution of problems involving federal taxes such as GST, excise taxes, and customs duties (E5-3)	
Solve and explain the solution of problems involving foreign currency exchange (E5-4)	
Solve and explain the solution of problems involving selected provincial taxes such as PST, fuel, and tobacco (E5-5)	
Explain the determination of education taxes, municipal mill rates, and municipal taxes (E5-6)	12E6.H.1. Solve problems involving the purchase and maintenance of a house. [C, CN, ME, R, T]
Make and justify inferences from graphical and tabular data (F5-1)	12E5.S.1. Solve problems that involve measures of central tendency, including: <ul style="list-style-type: none"> • mean • median • mode • weighted mean • trimmed mean. [C, CN, PS, R]
Determine the percentile rank of an item in a set of sample data (F5-2)	12E5.S.2. Analyze and describe percentiles. [C, CN, PS, R]
Distinguish between percent and percentile rank (F5-3)	12E5.S.2. Analyze and describe percentiles. [C, CN, PS, R]
Use standard deviation to describe the variability within a set of data (F5-4)	
Explain the variability of data using standard deviation and the normal curve (F5-5)	
Describe the relationship between the correlation coefficient and two data sets (F5-6)	
Conduct an investigation requiring the use of data and mathematical problem solving and decision making (G5-1)	

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Develop a structured report of an investigative study related to consumer mathematics (G5-2)	
Describe factors important in selecting careers (factors such as: job description, educational background, salary/wage levels, employment opportunities, opportunities for advancement) (C6-1)	12E5.C.1. Create a plan for the future including possible career choices and their requirements. [C, CN, PS, R]
Analyze the lifestyle one specific career could entail (in terms of monthly budget, lifestyle appropriate to the career, and any negative factors in the job) (C6-2)	12E5.C.1. Create a plan for the future including possible career choices and their requirements. [C, CN, PS, R]
Explain how financial values and goals affect investment choices (D6-1)	
Describe different investment options e.g., GICs, bonds, mutual funds, stocks, and real estate (D6-2)	
Compare and contrast different investment options in terms of risk, rates of return, costs, liquidity, and lengths of term (D6-3)	
Identify reasons for investing money in registered saving plans (RSPs) (D6-4)	
Describe the purchasing and selling of stocks (D6-5)	
Adjust financial plans including budgets, to achieve personal goals (D6-6)	
Interpret Net Worth Statements (D6-7)	
Explain the purpose of different sections of the T1 General Income Tax Form (E6-1)	12E6.B.2. Demonstrate an awareness of the government taxation forms and procedures involved in owning a business. [C,CN]
Using software and printed forms, complete income tax forms for: a) a single parent with a child a married couple (E6-2)	
Plot and analyze examples of direct variation, partial variation, and inverse variation (F6-1)	
Given data, graphs, or a situation, interpret the variation represented (F6-2)	
Use formulas given in the question to solve problems (F6-3)	
Select and use given formulas to solve problems (F6-4)	12E6.G.1. Solve problems by using the sine law and cosine law, excluding the ambiguous case. [CN, PS, V]

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Develop a portfolio of consumer mathematics skills, strategies, and activities (G6-1)	
Discuss the contents of the portfolio and their relation to consumer mathematics (G6-2)	
Justify the inclusion of portfolio items (G6-3)	
	<p>12E5.V.1. Solve problems that involve the acquisition, operation and maintenance of a vehicle, when</p> <ul style="list-style-type: none"> • buying • leasing • leasing to buy. <p>[C, CN, PS, R, T]</p>
	<p>12E5.P.1. Demonstrate an understanding of the limitations of measuring instruments, including:</p> <ul style="list-style-type: none"> • precision • accuracy • uncertainty • tolerance <p>and solve problems.</p> <p>[C, PS, R, T, V]</p>
	<p>12E6.G.1. Solve problems by using the sine law and cosine law, excluding the ambiguous case.</p> <p>[CN, PS, V]</p>
	<p>12E6.G.2. Solve problems that involve:</p> <ul style="list-style-type: none"> • triangles • quadrilaterals • regular polygons. <p>[C, CN, PS, V]</p>
	<p>12E6.B.1. Critique the viability of small business options by considering:</p> <ul style="list-style-type: none"> • expenses • sales • profit or loss. <p>[C, CN, R]</p>
	<p>12E6.B.2. Demonstrate an awareness of the government taxation forms and procedures involved in owning a business.</p> <p>[C,CN]</p>
	<p>12E6.P.1. Analyze and interpret problems that involve probability.</p> <p>[C, CN, PS, R]</p>

