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PENNSY	LVANIA ASSESSMENT AL C MOVING WITH MATH®	ORRELATED TO		
		IM1 <i>Number, Reasoning &amp; Data</i> Student Book Skill Builders (SB)	IM2 Fractions, Decimals & Percent Student Book Skill Builders (SB)	IM3 Geometry, Measurement, Graphing Student Book Skill Builders (SB)
M5.A	NUMBERS AND OPERATIONS			
M5.A.1	Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.			
M5.A.1.1	Express numbers in equivalent forms.	2, 3, 5, 6, 16, 17 <b>SB:</b> 1-1, 1-4, 1-5, 2-1, 4-4	4, 6-9, 13, 18, 42- 44, 46, 47, 50, 67- 69 <b>SB:</b> 12-1 to 12-10, 14-1, 14-2, 21-1 to 21-3, 22-1, 22- 2, 23-2, 25-1 to 25-4, 29-2, 30-1 to 30-5	<b>SB:</b> 12-1, 21-1, 22 1, 25-1, 29-1, 30- 1
M5.A.1.1.1	Use expanded notation to represent whole numbers or decimals (whole numbers less than 10,000,000 and decimals through hundredths).	3 <b>SB:</b> 1-5		
M5.A.1.2	Demonstrate understanding of place value of whole numbers and decimals.	2-4, 6-12 <b>SB:</b> 1-1 to 1-3, 1- 5, 2-1 to 2-4, 3-1 to 3-4	41, 44-47, 52, 63 <b>SB:</b> 1-1, 2-1, 22-1, 22-2, 23-1 to 23- 4, 24-1 to 24-4, 25-4, 26-1, 27-2, 27-4, 28-4, 28-7, 51-1 to 51-4	<b>SB:</b> 1-1, 2-1, 22-1 23-1, 24-1

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M5.A.1.2.1	Match the standard form to the word form of decimal numbers through the hundredths.	2-4 <b>SB:</b> 1-1 to 1-3, 2-1	41, 45, 46 <b>SB:</b> 1-1, 2-1,22-1, 22-2, 23-1	<b>SB:</b> 22-1
M5.A.1.2.2	Identify the place value of a digit (from millions through hundredths).	2-4, 6-12 <b>SB:</b> 1-1 to 1-3, 1- 5, 2-1 to 2-4, 3-1 to 3-4	41, 44-47, 52, 63 <b>SB:</b> 1-1, 2-1, 22-1, 22-2, 23-1 to 23- 4, 24-1 to 24-4, 25-4, 26-1, 27-2, 27-4, 28-4 to 28- 7, 51-1 to 51-4	<b>SB:</b> 1-1, 2-1, 22-1, 23-1, 24-1
M5.A.1.3	Compare quantities or magnitudes of numbers.		10, 11, 49-51 <b>SB:</b> 13-1, 13-2, 13- 5, 24-1 to 24-4	<b>SB:</b> 13-1, 24-1
M5.A.1.3.1	Compare whole numbers through 9 digits using the words more, less, equal, least, most, greater than, less than or the symbols <, >, =.	7, 8 <b>SB:</b> 2-3, 2-4		<b>SB:</b> 24-1
M5.A.1.3.2	Compare and/or order decimals through the hundredths. (Limit sets for ordering to no more than 4 numbers).		49-51 <b>SB:</b> 24-1 to 24-4	<b>SB:</b> 13-1, 24-1
M5.A.1.3.3	Compare proper fractions through 16ths with like and unlike denominators.		10, 11 <b>SB:</b> 13-1, 13-2, 13- 5	<b>SB:</b> 13-1, 14-1
M5.A.1.4	Use simple applications of negative numbers (number line, counting, temperature).	63-69 <b>SB:</b> 59-1 to 59-4	<b>SB:</b> 59-1	<b>SB:</b> 40-4, 43-1, 59- 1, 59-2
M5.A.1.4.1	Locate/identify integers on a number line (greater than or equal to -20).	64-69 <b>SB:</b> 59-1 to 59-3, 59-5	<b>SB:</b> 43-1, 59-1	<b>SB:</b> 40-4, 43-1, 59- 1, 59-2

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M5.A.1.4.2	Identify negative temperatures on a thermometer (through - 20oC or oF).	64, 65 <b>SB:</b> 59-1 to 59-3		<b>SB:</b> 40-4
M5.A.1.5	Use or develop models to represent fractions and/or mixed numbers.		2-10, 12, 13, 28- 34, 37, 38, 42-44, 58, 67 <b>SB:</b> 11-2 to 11-4, 11-6, 12-1, 12-4, 12-5, 12-8, 13-1, 14-1, 16-3, 21-1, 21-3, 22-1, 23-2, 25-3, 25-4, 29-2, 48-1, 48-2	56-58 <b>SB:</b> 12-1, 16-1, 29- 1, 52-1
M5.A.1.5.1	Use or develop regions and/or sets (e.g., circle graph, base ten blocks) to model fractions and mixed numbers through hundredths (may include reducing the fractions).		2-10, 12, 13, 28- 34, 37, 38, 42-44, 58, 67 <b>SB:</b> 11-2 to 11-4, 11-6, 12-1, 12-4, 12-5, 12-8, 13-1, 14-1, 16-3, 21-1, 21-3, 22-1, 23-2, 25-3, 25-4, 29-2, 48-1. 48-2	<b>SB:</b> 1-1, 9-1, 23-1, 27-1, 29-1, 48-1, 51-1
M5.A.1.6	Apply number theory concepts (I.e., primes, factors, multiples, composites).	13-15, 18 <b>SB:</b> 4-1	8, 18 <b>SB:</b> 4-1 to 4-3, 12- 2	SB: 4-1
M5.A.1.6.1	Define/list/identify prime and composite numbers less than or equal to 100.	14, 15, 18 <b>SB:</b> 4-1, 4-2, 4-4, 4-5	<b>SB:</b> 4-2, 4-3	<b>SB:</b> 4-1
M5.A.1.6.2	Define/list/identify factors and/or multiples of a given whole number less than or equal to 50.	13,18 <b>SB:</b> 4-2 to 4-6	8, 18 <b>SB:</b> 4-1 to 4-3, 12- 2	SB: 4-1
M5.A.2	Understand the meanings of operations, use operations and understand how they relate to each other.			

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M5.A.2.1	Solve problems involving decimals, fractions and/or whole numbers (straight computation or word problems).	23-50 <b>SB:</b> 6-1 to 6-3, 7-1 to 7-4, 8-1 to 8-7, 9- to 9-5, 10-1 to 10-7	14-17, 19-23, 25, 26, 28-31, 33, 34, 36, 54-65 <b>SB:</b> 5-2, 6-1, 7-1, 8-1, 9-1, 10-1, 10- 2, 15-1 to 15-3, 16-1 to 16-4, 17- 1 to 17-4, 18-1, 19-1 to 19-5, 20- 1 to 20-5, 26-2 to 26-4, 27-1 to 27- 6, 28-1 to 28-7, 45-1 to 45-15	<b>SB:</b> 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 15- 1, 16-1, 17-1, 18- 1, 19-1, 20-1, 26- 1, 27-1, 28-1
M5.A.2.1.1	Solve problems involving addition, subtraction, multiplication and division of whole numbers (multipliers up to 2 digits – divisors one digit) and decimals including money (answer through hundredths – no divisors with decimals).	23-50 <b>SB:</b> 6-1 to 6-3, 7-1 to 7-4, 8-1 to 8-7, 9-1 to 9-5, 10-1 to 10-7	54-65 <b>SB:</b> 4-1, 5-2, 6-1, 7-1, 8-1, 9-1, 10- 1, 10-2, 26-2 to 26-4, 27-1 to 27- 6, 28-1 to 28-7, 45-5 to 45-7, 45- 12, 45-13	<b>SB:</b> 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 26- 1, 27-1, 28-1
M5.A.2.1.2	Solve problems involving addition and subtraction of fractions (through 16ths – like and unlike denominators – for unlike denominators, the LCD must be one of the given denominators).		14-17, 19-23, 25- 27 <b>SB:</b> 15-1 to 15-3, 16-1 to 16-4, 17- 1 to 17-4, 18-1 to 18-4	<b>SB:</b> 15-1, 16-1, 17- 1, 18-1
M5.A.2.1.3	Choose the correct operation(s) to solve a problem (no more than 2 operations).	29-31, 49, 50, 53- 58 <b>SB:</b> 9-3, 45-1 to 45-17, 56-4	26-29, 32, 36, 54- 56, 65, 66 <b>SB:</b> 45-1 to 45-14	<b>SB:</b> 26-1, 45-1, 45- 3, 45-4
M5.A.3.	Compute accurately and fluently and make reasonable estimates.			

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M5.A.3.1	Apply estimation strategies to a variety of problems.	9-12, 27-29, 38,48, 51-54 <b>SB:</b> 3-1 to 3-4, 45- 7, 45-8, 49-1, 49- 2, 50-1 to 50-3	24-27, 65, 66 <b>SB:</b> 13-3, 18-3, 18- 4, 45-3, 45-5, 45- 6, 45-8 to 45-11, 49-1, 50-1	6, 14, 34 <b>SB:</b> 10-1, 36-3, 49- 1, 50-1
M5.A.3.1.1	Round whole numbers through millions and decimals through hundredths.	9-12, 27, 28, 51, 52 <b>SB:</b> 3-1 to 3-4, 49- 1, 49-2, 50-1 to 50-3	52, 53 <b>SB:</b> 49-1, 50-1, 51- 1 to 51-4	<b>SB:</b> 3-1, 51-1
M5.A.3.1.2	Use estimation to solve problems involving whole numbers and/or decimals (up to 2-digit multipliers, single-digit divisors or multiples of 10; whole numbers through thousands and decimals through hundredths)	27-29, 38, 48, 51- 54 <b>SB:</b> 10-6, 45-7, 45- 8, 49-1, 49-2, 50- 1 to 50-3	24-27, 65, 66 <b>SB:</b> 13-3, 18-3, 18- 4, 45-3, 45-5, 45- 6, 45-8 to 45-11, 49-1, 50-1	<b>SB:</b> 10-1, 36-3, 49- 1, 50-1
M5.A.3.2	Compute accurately without the use of a calculator (straight computation or 1 operation word problems).	23-50 <b>SB:</b> 6-1 to 6-3, 7-1 to 7-4, 8-1 to 8-7, 9-1 to 9-5, 10-1, 10-7	14-17, 19-23, 25, 26, 28-31, 33, 34, 36, 54-64 <b>SB:</b> 5-2, 6-1, 7-1, 8-1, 9-1, 10-1, 10- 2, 15-1 to 15-3, 16-1 to 16-4, 17- 1 to 17-4, 18-1, 19-1 to 19-5, 20- 1 to 20-5, 26-2 to 26-4, 27-1 to 27- 6, 28-1 to 28-7, 45-1 to 45-15	<b>SB:</b> 6-1, 7-1, 8-1, 9-1, 10-1, 15-1, 16-1, 17-1, 18-1, 19-1, 20-1, 26-1, 27-1, 28-1

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M5.A.3.2.1	Use addition, subtraction, multiplication and division to compute accurately without a calculator (multipliers up to 2 digits, single-digit divisors or multiples of 10 – whole numbers through thousands and decimals through hundredths – no divisors with decimals).	23-50 <b>SB:</b> 6-1 to 6-3, 7-1 to 7-4, 8-1 to 8-7, 9-1 to 9-5, 10-1, 10-7	14-17, 19-23, 25, 26, 28-31, 33, 34, 36, 54-64 <b>SB:</b> 5-2, 6-1, 7-1, 8-1, 9-1, 10-1, 10- 2, 15-1 to 15-3, 16-1 to 16-4, 17- 1 to 17-4, 18-1, 19-1 to 19-5, 20- 1 to 20-5, 26-2 to 26-4, 27-1 to 27- 6, 28-1 to 28-7, 45-1 to 45-15	<b>SB:</b> 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 26- 1, 27-1, 28-1
M5.B	MEASUREMENT			
M5.B.1	Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement.			
M5.B.1.1	Select appropriate units (customary or metric) to measure specific attributes of objects.			30-32, 34-50 <b>SB:</b> 36-1 to 36-7, 38-1 to 38-13, 40- 1 to 40-4, 41-1, 41-2, 42-1, 42-2, 45-2
M5.B.1.1.1	Select the appropriate unit for measuring weight (mass), capacity, length, perimeter and area.			30-32, 34-50 <b>SB:</b> 36-1 to 36-7, 38-1 to 38-13, 41- 1, 41-2, 42-1, 42- 2, 45-1, 45-5
M5.B.1.2	Solve problems using simple conversations and/or add and subtract measurements.			31 SB: 36-4, 36-6, 40- 1 to 40-4, 41-1, 41-2, 42-1, 42-2, 45-2

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M5.B.1.2.1	Convert using linear measurements, capacity, and weight (mass) within the same system to the unit immediately above or below the given unit (using only the units below – use a conversion chart or a "hint" with problems e.g., hint: 16 oz = 1 lb).			31, 33-37 <b>SB:</b> 36-4, 36-6, 41- 1, 41-2, 42-1, 42- 2
•	Metric using mm, cm, m and km; mL and L; g and kg			33, 37 <b>SB:</b> 36-6, 41-2, 42- 2
•	Customary using cup, pint, quart, gallon; in, ft, yd; oz, lb			31, 36 <b>SB:</b> 36-4, 41-1, 42- 1
M5.B.1.2.2	Add or subtract linear measurements, (feet and inches) or units of time (hours and minutes), without having to regroup with subtraction (answer should be in simplest form).	<b>SB:</b> 46-1		28, 29, 38, 39 <b>SB:</b> 40-2, 40-3
M5.B.1.3	Estimate and/or compare the perimeters or areas of 2 figures without computation.			40, 41 <b>SB:</b> 38-1, 38-2, 38- 13
M5.B.1.3.1	Estimate which polygon (shown on a grid) has a greater perimeter or area (compare either area to area or perimeter to perimeter).			50, 51 <b>SB:</b> 38-3, 38-11
M5.B.1.3.2	Estimate the area of an irregular figures shown on a grid.			43-45, 48, 49 <b>SB:</b> 38-4, 38-5
M5.B.2	Apply appropriate techniques, tools and formulas to determine measurements.			

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M5.B.2.1	Use appropriate tools to determine measurements.			6, 23, 28-51 <b>SB:</b> 33-1, 36-1 to 36-3, 36-5, 36-7, 37-4, 37-5, 38-1 to 38-13, 40-1, 40-4, 52-6
M5.B.2.1.1	Use a ruler to measure to the nearest 1/8 inch or centimeter.			30,. 32, 41 <b>SB:</b> 36-1 to 36-3, 36-5, 36-7, 38-9, 38-13
M5.B.2.2	Solve problems involving length, time, weight (mass), capacity, temperature, perimeter and/or area.			28-51 <b>SB:</b> 36-1 to 36-7, 36-5, 36-7, 38-1 to 38-13, 40-1 to 40-4, 41-1, 41-2, 42-1, 42-2
M5.B.2.2.1	Find the perimeter of a figure drawn and labeled (with the same units throughout).			40-42 <b>SB:</b> 38-1 to 38-3, 38-8, 38-11, 38- 13
M5.B.2.2.2	Find the area of a square or rectangle (with the same units throughout- whole numbers only).			43-46 <b>SB:</b> 38-4 to 38-6, 38-8, 38-9
M5.B.2.2.3	Solve problems involving weight, time, temperature, length and capacity (with the same units throughout – limited to 3 digits).			28-51 <b>SB:</b> 36-1 to 36-7, 38-1 to 38-13, 40- 1 to 40-4, 41-1, 41-2, 42-1, 42-2
M5.C	GEOMETRY			
M5.C.1	Analyze characteristics and properties of two- and three- dimensional geometric shapes and demonstrate understanding of geometric relationships.			

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M5.C.1.1	Define and/or use basic properties of quadrilaterals (parallelograms, squares, rectangles, trapezoids, rhombi), triangles, circles, pyramids, cubes, and/or prisms.			7-15, 25-27 SB: 34-1 to 34-10, 35-1, 35-2, 55-1 to 55-3
M5.C.1.1.1	Identify, and/or classify cubes, rectangular prisms or pyramids using faces, vertices and edges.			11, 12 <b>SB:</b> 34-6 to 34-8
M5.C.1.1.2	Identify and/or describe properties of all types of quadrilaterals (parallelogram, rectangle, rhombus, square, trapezoid).			9 <b>SB:</b> 34-4, 34-5
M5.C.1.2	Represent and/or use properties of lines, line segments, rays, points and planes.			2-4 <b>SB:</b> 31-1, 32-1 to 32-5
M5.C.1.2.1	Identify, draw and/or label points, lines, line segments and rays.			2-4 <b>SB:</b> 31-1, 32-1 to 32-5
M5.C.2	Identify and/or apply concepts of transformations or symmetry.			
M5.C.2.1	Analyze transformations and/or use symmetry to analyze mathematical situations.			17-20 <b>SB:</b> 60-1 to 60-6
M5.C.2.1.1	Draw or identify a translation (slide), reflection (flip) or rotation (turn) of a 2- dimensional shape.			20 <b>SB:</b> 60-4, 60-5
M5.C.2.1.2	Identify the number of lines of symmetry and/or draw all lines of symmetry in a two- dimensional polygon.			17 <b>SB:</b> 60-1

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M5.C.3	Locate points or describe relationships using the coordinate plane.	77 <b>SB:</b> 43-1		15,16 <b>SB:</b> 43-1
	Not assessed at Grade 5.			
M5.D	ALGEBRAIC CONCEPTS			
M5.D.1	Demonstrate an understanding of patterns, relations and functions.			
M5.D.1.1	Create or extend patterns.	73-76 <b>SB:</b> 44-1 to 44-6	7, 11, 28, 29, 50, 60, 61, 63 <b>SB:</b> 12-5, 12-9, 28- 6, 44-1	21, 22 <b>SB:</b> 44-1 to 44-4
M5.D.1.1.1	Extend or find a missing element in a numerical or simple geometric pattern (+, -, x, or ÷ of whole numbers ). Patterns must show 3 repetitions.	73-76 <b>SB:</b> 44-1 to 44-6	<b>SB:</b> 44-1	21 <b>SB:</b> 44-1
M5.D.1.1.2	Create or replicate a numerical or geometric pattern showing 3 repetitions of that pattern $(+, -,$ x or $\div$ of whole numbers may be used).	73-76 <b>SB:</b> 44-1 to 44-6	SB: 44-1	21 SB: 44-1
M5.D.1.2	Analyze patterns.	73-76 <b>SB:</b> 44-1 to 44-6	<b>SB:</b> 44-1	21, 22 <b>SB:</b> 44-1 to 44-4
M5.D.1.2.1	Form a rule based on a given pattern, or illustrate a pattern based on a given rule (_, -, x or÷ of whole numbers may be used). Patterns must show 3 repetitions.	73-76 <b>SB:</b> 44-1 to 44-6	SB: 44-1	21 <b>SB:</b> 44-1
M5.D.2	Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.			

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M5.D.2.1	Select and/or use appropriate strategies, including concrete materials, to solve or represent expressions or number sentences.	29-31, 49, 50, 53- 58 <b>SB:</b> 9-3, 45-1 to 45-17, 56-4	26, 27, 32, 35, 36, 55, 56, 65, 66 <b>SB:</b> 17-4, 19-1, 19- 5, 45-1 to 45-15	<b>SB:</b> 45-1 to 45-4, 56-1, 56-2, 59-2
M5.D.2.1.1	Solve for a missing number (blank, question mark, variable) in a equation involving a single operation whole numbers only.	19, 20, 50, 55 <b>SB:</b> 5-1 to 5-5, 5- 7, 9-4, 45-12, 45- 14, 45-16	<b>SB:</b> 5-1, 5-2, 45-6	<b>SB:</b> 54-1, 55-1, 55- 2, 56-1, 56-2
M5.D.2.1.2	Match a realistic situation to an equation, expression, inequality $(<, >, =)$ , table or graph (variable must be isolated, e.g., $17 + 39 = n$ ).	50, 55, 76-78 <b>SB:</b> 8-1, 45-1, 45- 2, 45-7, 45-8, 45- 12, 46-5, 56-4	35, 66 <b>SB:</b> 45-4, 45-6, 45- 9	66, 68-76 <b>SB:</b> 44-5, 44-6, 46- 1, 47-1 to 47-8, 49-1
M5.D.3	Analyze change in various contexts.			
	Not assessed at Grade 5.			
M5.D.4	Describe or use models to represent quantitative relationships.	manipulatives throughout	manipulatives throughout	manipulatives throughout
	Not assessed at Grade 5.			
M5.E	DATA ANALYSIS AND PROBABILITY			
M5.E.1	Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.			
M5.E.1.1	Organize, display and/or interpret data using pictographs, tallies, tables, charts, line, bar graphs.	59-62, 77, 78 <b>SB:</b> 46-5, 44-4	<b>SB:</b> 48-1 to 48-3, 57-3, 58-1 to 58-3	66-76 <b>SB:</b> 47-1 to 47-6, 48-1 to 48-5

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M5.E.1.1.1	Display and/or interpret data shown in tallies, tables, charts, pictographs, bar graphs, line graphs and using a title, appropriate scale, and labels. A grid will be provided to display data on bar graphs or line graphs.	59-62, 77, 78 <b>SB:</b> 44-4, 46-5	<b>SB:</b> 48-1 to 48-3, 57-3, 58-1 to 58-3	66-76 <b>SB:</b> 47-1 to 47-6, 48-1 to 48-5
M5.E.2	Select and/or use appropriate statistical methods to analyze data.			
M5.E.2.1	Describe data sets using mean, median, mode and/or range.	59-61 <b>SB:</b> 46-1to 46-5	<b>SB:</b> 46-1	65 <b>SB:</b> 46-1
M5.E.2.1.1	Determine the mean/average (answer is a whole number), median (answer is a whole number or average of 2 numbers) and range of data (up to 10 numbers).	59-61 <b>SB:</b> 46-1 to 46-4	<b>SB:</b> 46-1	65 <b>SB:</b> 46-1
M5.E.2.1.2	Identify the mode in a set of data (up to 10 numbers).	60 <b>SB:</b> 46-5		65 <b>SB:</b> 46-1
M5.E.3	Understand and/or apply basic concepts of probability or outcomes.			
M5.E.3.1	Predict or determine all possible combinations, outcomes and/or calculate the probability of a simple event.		73-78 <b>SB:</b> 57-1 to 57-5, 58-1 to 58-4	<b>SB:</b> 57-1, 58-1
M5.E.3.1.1	Predict or determine whether some outcomes are certain more likely, less likely, equally likely, or impossible (information could be represented by pictographs, bar graphs, charts, tables and/or spinners).		73-75, 78 <b>SB:</b> 57-1 to 57-5	<b>SB:</b> 57-1, 58-1

		IM1 <i>Number, Reasoning &amp; Data</i> Student Book Skill Builders (SB)	IM2 Fractions, Decimals & Percent Student Book Skill Builders (SB)	IM3 <i>Geometry,</i> <i>Measurement,</i> <i>Graphing</i> Student Book Skill Builders (SB)
M5.E.3.1.2	Determine the probability of an outcome (e.g., a coin toss, a roll of a number cube) and express as a fraction without reduction.		73-75, 78 <b>Sb:</b> 57-1 to 57-5, 58-1 to 58-4	<b>SB:</b> 57-1, 58-1
M5.E.4	Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.			66, 69-75 <b>SB:</b> 47-1, 47-2, 47-3, 47-6, 48-1 to 48-5
	Not assessed at Grade 5.			