

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Number Sense, Concepts, and Operations

STANDARD: Standard 1: The student understands the different ways numbers are represented and used in the real world.(MA.A.1.1)

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.A.1.2.1: The student names whole numbers combining 3-digit numeration (hundreds, tens, ones) and the use of number periods, such as ones, thousands, and millions and associates verbal names, written word names, and standard numerals with whole numbers, commonly used fractions, decimals, and percents.	1.reads, writes, and identifies whole numbers through millions or more.	TE: 4A-4B, 4-5, 6A-6B, 6-8, 14A-14B, 14-15, 16A-16B, 16-18, 24A-24B, 24-25, 26A-26B, 26-28, 46-47 PE: 4-5, 6-8, 14-15, 16-18, 24-25, 26-28, 46-47	I
	2.reads, writes, and identifies fractions and mixed numbers with denominators including 2, 3, 4, 5, 6, 8, 10, 12, 20, 25, 100, and 1000.	TE: 4490A-490B, 490-491, 492A-492B, 492-493, 494A-494B, 494-496, 497, 498A-498B, 498-500, 501, 502A-502B, 502-503, 504A-504B, 504-506, 508A-508B, 508-510, 511 PE: 490-491, 492-493, 494-496, 497, 498-500, 501, 502-503, 504-506, 508-510, 511	I
	3.reads, writes, and identifies decimals through hundredths.	TE: 542A-542B, 542-543, 546A-546B, 546-548, 560A-560B, 560-562, 568A-568B, 568-569, 572A-572B, 572-573, 574A-574B, 574-575 PE: 542-543, 546-548, 560-562, 568-569, 572-573, 574-575	I

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BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.A.1.2.2: The student understands the relative size of whole numbers, commonly used fractions, decimals, and percents.	1.uses language and symbols (>, <, =) to compare numbers in the same form and in two different forms such as $\frac{1}{2}$.	TE: 4A–4B, 4–5, 24A–24B, 24–25, 499A-499B, 499-500, 524A-524B, 524-525, 558A-558B, 558-559, 560A-560B, 560-561, 624A-624B, 624-626 PE: 4–5, 24–25, 499-500, 524-525, 558-559, 560-561, 624-626	I
	2.compares and orders whole numbers through millions or more, using concrete materials, number lines, drawings, and numerals.	TE: 24A–24B, 24–25, 26A–26B, 26–28, 50 PE: 24–25, 26-28, 50	I
	3.compares and orders commonly used fractions and decimals to hundredths using concrete materials, drawings, and numerals.	TE: 498A–498B, 498–500, 542A-542B, 542-543, 558A–558B, 558–559, 560A–560B, 560–562 PE: 498–500, 542-543, 558–559, 560-562	I
	4.locates whole numbers, fractions, mixed numbers, and decimals on a number line.	TE: 24, 26, 38A–38B, 38–39, 493–494, 499, 550, 558, 560, 568A–568B, 568–569 PE: 24, 26, 38–39, 493–494, 499, 550, 558, 560, 568–569	I
Benchmark MA.A.1.2.3: The student understands concrete and symbolic representations of whole numbers, fractions, decimals, and percents in real-world situations.	1.translates problem situations into diagrams and models using whole numbers, fractions, mixed numbers and decimals to hundredths including money notation.	TE: 30A–30B, 30–32, 34A–34B, 34–36, 54, 150A-150B, 150-151, 490A-490B, 490-491, 504A-504B, 504-505, 520A-520B, 520-521, 524A-524B, 524-525, 542A-542B, 542-543, 546A-546B, 546-548, 568A-568B, 568-569, 642 PE: 30–32, 34–36, 54, 150-151, 490-491, 504-505, 520-521, 524-525, 542-543, 546-548, 568-569, 642	I

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BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.A.1.2.4: The student understands that numbers can be represented in a variety of equivalent forms using whole numbers, decimals, fractions, and percents.	1.uses concrete materials to model equivalent forms of whole numbers, fractions, and decimals.	TE: 492A-492B, 492-493, 542A-542B, 542-543, 544A-544B, 544-545 PE: 492-493, 542-543, 544-545	I
	2.identifies equivalent forms of numbers.	TE: 492A-492B, 492-493, 494A-494B, 494-496, 497, 542A-542B, 542-543, 547, 550A-550B, 550-552 PE: 492-493, 494-496, 497, 542-543, 547, 550-552	I
	3.knows that two numbers in different forms are equivalent or non-equivalent, using whole numbers, decimals, fractions, and mixed numbers.	TE: 508A-508B, 508-510, 542A-542B, 542-543, 544A-544B, 544-545, 546A-546B, 546-548, 550A-550B, 550-552, 553, 560A-560B, 560-561, 563 PE: 508-510, 542-543, 544-545, 546-548, 550-552, 553, 560-561, 563	I

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STRAND: Number Sense, Concepts, and Operations

STANDARD: Standard 2: The student understands number systems.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.A.2.2.1: The student uses place-value concepts of grouping based upon powers of ten (thousandths, hundredths, tenths, ones, tens, hundreds, thousands) within the decimal number system.	1.knows the value of a given digit in numbers from hundredths to millions, including writing and interpreting expanded forms of numbers.	TE: 6A-6B, 6-8, 16A-16B, 16-18, 24A-24B, 24-225, 26A-26B, 26-28, 30A-30B, 30-32, 38A-38B, 38-39, 47, 50, 55, 544A-544B, 544-545, 558A-558B, 558-559, 568A-568B, 568-569 PE: 6-8, 16-18, 24-25, 26-28, 30-32, 38-39, 47, 50, 55, 544-545, 558-559, 568-569	I
Benchmark MA.A.2.2.2: The student recognizes and compares the decimal number system to the structure of other number systems such as the Roman numeral system or bases other than ten.	1. uses concrete materials and symbolic notation to represent numbers in bases other than base ten, such as base five.	TE: 9 PE: 9	I
	2. reads, writes, and compares the decimal number system to the Roman numeral system using the Roman numerals I, V, X, L, C, D, and M.	TE: 51 PE: 51	I

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GRADE: Four

STRAND: Number Sense, Concepts, and Operations

STANDARD: Standard 3: The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.A.3.2.1: The student understands and explains the effects of addition, subtraction, and multiplication on whole numbers, decimals, and fractions, including mixed numbers, and the effects of division on whole numbers, including the inverse relationship of multiplication and division.	1.recalls (from memory) basic multiplication facts and related division facts.	TE: 84A-84B, 84-86, 88A-88B, 88-89, 92A-92B, 92-93, 94A-94B, 94-96, 100A-100B, 100-101, 102A-102B, 102-103, 133, 146A-146B, 146-147, 148A-148B, 148-149, 150A-150B, 150-151, 152A-152B, 152-154, 172A-172B, 172-173, 174A-174B, 174-175, 176A-176B, 176-177, 178A-178B, 178-180, 184A-184B, 184-185, 186A-186B, 186-188, 197, 206A-206B, 206-207, 218A-218B, 218-219, 220A-220B, 220-211, 272A-272B, 272-273, 274A-274B, 274-275, 276A-276B, 276-278 PE: 84-86, 88-89, 92-93, 94-96, 100-101, 102-103, 133, 146-147, 148-149, 150-151, 152-154, 172-173, 174-175, 176-177, 178-180, 184-185, 186-188, 197, 206-207, 218-219, 220-211, 272-273, 274-275, 276-278	I
	2.knows the inverse relationship of multiplication and division and demonstrates that relationship by writing related fact families.	TE: 88A-88B, 88-89, 90A-90B, 90-91, 92A-92B, 92-93, 94A-94B, 94-96 PE: 88-89, 90-91, 92-93, 94-96	I

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BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
	3.explains and demonstrates the multiplication and division of whole numbers using manipulatives, drawings, and algorithms.	TE: 90A-90B, 90-91, 94A-94B, 94-96, 98A-98B, 98-99, 102A-102B, 102-103, 106, 150A-150B, 150-151, 152A-152B, 152-154, 160A-160B, 160-161, 164A-164B, 164-165, 176A-176B, 176-177, 178A-178B, 178-179, 186A-186B, 186-187, 197, 206A-206B, 206-207, 208A-208B, 208-209, 214A-214B, 214-215, 228A-228B, 228-229, 238A-238B, 238-239, 244A-244B, 244-245, 276A-276B, 276-278, 285, 300 PE: 90-91, 94-96, 98-99, 102-103, 106, 150-151, 152-154, 160-161, 164-165, 176-177, 178-179, 186-187, 197, 206-207, 208-209, 214-215, 223, 228-229, 238-239, 244-245, 276-278, 285, 300	I
	4.explains and demonstrates the addition and subtraction of common fractions using concrete materials, drawings, story problems, and algorithms.	TE: 516A-516B, 516-519, 528A-528B, 528-529, 530A-530B, 530-532 PE: 516-519, 528-529, 530-532	I
	5.explains and demonstrates the addition and subtraction of decimals (to hundredths) using concrete materials, drawings, story problems, and algorithms.	TE: 572A-572B, 572-573, 574A-574B, 574-575 PE: 572-573, 574-575	I

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BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
	6.knows the properties of numbers including the following: <ul style="list-style-type: none"> •the identity, commutative, and associative properties of addition •the zero and identity properties of multiplication •the commutative, associative, and distributive properties of multiplication. 	TE: 60A–60B, 60–61, 84A–84B, 84–86, 100A–100B, 100-101, 176A-176B, 176-177 PE: 60–61, 84–86, 100-101, 176-177	I
	7.predicts the relative size of solutions in the following: <ul style="list-style-type: none"> •addition, subtraction, multiplication, and division of whole numbers •addition and subtraction of common fractions •addition and subtraction of decimals to hundredths 	TE: 62A-62B, 62–63, 64A-64B, 64-66, 67, 148A-148B, 148–149, 152A-152B, 152-153, 160A-160B, 160-161, 164A-164B, 164-165, 174A-174B, 174–175, 220A-220B, 220–222, 286A-286B, 286-287, 524A-524B, 524-525, 570A-570B, 570-571, 576A-576B, 576-577 PE: 62–63, 64-66, 67, 148–149, 152-153, 160-161, 164-165, 174–175, 220–222, 286-287, 524-525, 570-571, 576-577	I
Benchmark MA.A.3.2.2: The student selects the appropriate operation to solve specific problems involving addition, subtraction, and multiplication of whole numbers, decimals, and fractions, and division of whole numbers.	1.uses problem-solving strategies to determine the operation(s) needed to solve one-and two- step problems involving addition, subtraction, multiplication, and division of whole numbers, and addition and subtraction of decimals and fractions.	TE: 12, 42, 104A–104B, 104, 156A-156B, 156-157, 258A-258B, 258-260, 288A-288B, 288, 316A-316B, 316, 519, 526A-526B, 526, 534A-534B, 534-536, 571, 576A-576B, 576-578 PE: 12, 42, 104, 156-157, 258-260, 288, 316, 519, 526, 534-536, 571, 576-578	I

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STANDARD: Standard 3: The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.A.3.2.3: The student adds, subtracts, and multiplies whole numbers, decimals, and fractions, including mixed numbers, and divides whole numbers to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator.	1.solves real-world problems involving addition, subtraction, multiplication, and division of whole numbers, and addition and subtraction of decimals and fractions using an appropriate method (for example, mental math, pencil and paper, calculator).	TE: 42, 78, 166, 188, 212, 222, 246, 266, 350, 446, 472, 526A-526B, 526, 536, 578, 630 PE: 42, 78, 166, 188, 212, 222, 246, 266, 350, 446, 472, 526, 536, 578, 630	I
	2.explains the reason for choosing a particular computing method for a particular problem.	TE: 104A-104B, 104, 128A-128B, 128, 526A-526B, 526 PE: 104, 128, 526	I
	3.solves real-world multiplication problems with whole numbers (three digits by one digit) using concrete materials, drawings, and pencil and paper.	TE: 160A-160BB, 160-162, 166, 188, 193, 196 PE: 160-162, 166, 188, 193, 196	I
	4.solves real-world division problems having divisors of one digit and dividends of three digits, with or without remainders.	TE: 228A-228B, 228-239, 230A-230B, 230-231, 234A-234B, 234-236, 238A-238B, 238-239 PE: 228-239, 230-231, 234-236, 238-239	I

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STANDARD: Standard 3: The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
	5.solves real-world problems involving the addition or subtraction of decimals (to hundredths) or common fractions with like or unlike denominators.	TE: 516A-516B, 516-519, 528A-528B, 528-529, 530A-530B, 530-532, 574A-574B, 574-575, 576A-576B, 576-578 PE: 516-519, 528-529, 530-532, 574-575, 576-578	I

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STRAND: Number Sense, Concepts, and Operations

STANDARD: Standard 4: The student uses estimation in problem solving and computation.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.A.4.2.1: The student uses and justifies different estimation strategies in a real- world problem situation and determines the reasonableness of results of calculations in a given problem.	1.chooses, describes and explains estimation strategies used to determine the reasonableness of solutions to real-world problems.	TE: 64A-64B, 64-66, 68A-68B, 68, 128A-128B, 128, 148A-148B, 148-149, 160A-160B, 160-161, 174A-174B, 174-175, 182A-182B, 182, 186A-186B, 186-187, 220A-220B, 220-221, 274A-274B, 274-275, 286A-286B, 286-287, 570A-570B, 570-571 PE: 64-66, 68, 128, 148-149, 160-161, 174-175, 182, 186-187, 220-221, 274-275, 286-287, 570-571	I
	2.estimates quantities of objects to 500 or more and justifies and explains the reasoning for the estimates (for example, using compatible numbers, benchmark numbers, unitizing).	TE: 14A-14B, 14-15, 19, 220A-220B, 220-221, 274A-274B, 274-275 PE: 14-15, 19, 220-221, 274-275	I

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STRAND: Number Sense, Concepts, and Operations

STANDARD: Standard 5: The student understands and applies theories related to numbers.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.A.5.2.1: The student understands and applies basic number theory concepts, including primes, composites, factors, and multiples.	1.knows factors and multiples of numbers to 100.	TE: 90A-90B, 90-91, 97, 98A-98B, 98-99, 146A-146B, 146-147, 172A-172B, 172-173, 218A-218B, 218-219, 252A-525B, 252-253, 254A-254B, 254-256, 272A-272B, 272-273 PE: 90-91, 97, 98-99, 146-147, 172-173, 218-219, 252-253, 254-256, 272-273	I
	2.multiplies by 10, 100, and 1,000 recognizing and demonstrating patterns.	TE: 146A-146B, 146-147, 172A-172B, 172-173 PE: 146-147, 172-173	I
	3.knows rules of divisibility for 2, 3, 5, 9, and 10.	TE: 297 PE: 297	I
	4.uses models to identify perfect squares to 100.	TE: 90A-90B, 90-91, 105 PE: 90-91, 105	I

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GRADE: Four

STRAND: Measurement

STANDARD: Standard 1: The student measures quantities in the real world and uses the measures to solve problems.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.B.1.2.1: The student uses concrete and graphic models to develop procedures for solving problems related to measurement including length, weight, time, temperature, perimeter, area, volume, and angle.	1.knows measurement concepts and can use oral and written language to communicate them.	TE: 306A-306B, 306-307, 308A-308B, 308-309, 310A-310B, 310-311, 312A-312B, 312-315, 318A-318B, 318-319, 320A-320B, 320-321, 322A-322B, 322-324, 325, 326A-326B, 326-328, 334A-334B, 334-335, 336A-336B, 336-338, 344A-344B, 344-346, 347, 410A-410B, 410-411, 452A-452B, 452-453, 454A-454B, 454-455, 456A-456B, 456-458, 460A-460B, 460-462, 468A-468B, 468-469 PE: 306-307, 308-309, 310-311, 312-315, 318-319, 320-321, 322-324, 325, 326-328, 334-335, 336-338, 344-346, 347, 410-411, 452-453, 454-455, 456-458, 460-462, 468-469	I
	2.uses a wide variety of models (for example, manipulatives, diagrams) and applies counting procedures to investigate measurements of length, area, volume, and perimeter.	TE: 306B, 306-307, 318A-318B, 318-319, 322A-322B, 322-323, 325, 452A-452B, 452-453, 456A-456B, 456-458, 460A-460B, 460-462, 468A-468B, 468-469 PE: 306-307, 318-319, 322-323, 325, 452-453, 456-458, 460-462, 468-469	I
	3.knows about varied time intervals, including decades, hours, minutes, and seconds.	TE: 334A-334B, 334-335, 336A-336B, 336-338, 339, 390A-390B, 390-391 PE: 334-335, 336-338, 339, 390-391	I
	4.investigates angle measures using models and manipulatives for the common angles of 45 °, 90 °, and 180 ° ((straight angle) and uses these angles as reference points for measures of other angles.	TE: 410A-410B, 410-411 PE: 410-411	I

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STRAND: Measurement

STANDARD: Standard 1: The student measures quantities in the real world and uses the measures to solve problems.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.B.1.2.2: The student solves real-world problems involving length, weight, perimeter, area, capacity, volume, time, temperature, and angles.	1.solves real-world problems involving measurement of the following: <ul style="list-style-type: none"> •length (for example, millimeter, quarter-inch, foot, yard, meter) •weight (for example, pounds, ounces, kilograms, grams) •capacity (for example, cup, milliliters) •temperature (Fahrenheit and Celsius) •angles (right and straight) 	TE: 306A-306B, 306-307, 308A-308B, 308-309, 310A-310B, 310-311, 312A-312B, 312-314, 318A-318B, 318-319, 320A-320B, 320-321, 322A-322B, 322-324, 325, 326A-326B, 326-328, 344A-344B, 344-346, 347, 348A-348B, 348-350, 351, 408A-408B, 408-409, 460A-460B, 460-462 PE: 306-307, 308-309, 310-311, 312-314, 318-319, 320-321, 322-324, 325, 326-328, 344-346, 347, 348-350, 351, 408-409, 460-462	I
	2.solves real-world problems involving perimeter, area, and volume using concrete, graphic, or pictorial models.	TE: 452A-452B, 452-453, 454A-454B, 454-455, 456A-456B, 456-458, 460A-460B, 460-462, 468A-468B, 468-469 PE: 452-453, 454-455, 456-458, 460-462, 468-469	I
	3.uses schedules, calendars, and elapsed time to solve real-world problems.	TE: 334A-334B, 334-335, 336A-336B, 336-338, 339, 394, 395 PE: 334-335, 336-338, 339, 394, 395	I

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GRADE: Four

STRAND: Measurement

STANDARD: Standard 2: The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary).

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.B.2.2.1: The student uses direct (measured) and indirect (not measured) measures to calculate and compare measurable characteristics	1.devises nonstandard, indirect ways to compare lengths (for example, compare the height of a cylinder to the distance around it).	TE: 325, 455, 587 PE: 325, 455, 587	I
	2.uses customary and metric units to compare length, weight, and capacity or volume.	TE: 307, 309, 311, 312A-312B, 312-314, 318A-318B, 318-319, 320A-320B, 320-321, 324, 328 PE: 307, 309, 311, 312-314, 318-319, 320-321, 324, 328	I
	3.uses multiplication or division to convert units of measure within either the customary or metric system (for example: 100 cm =1 m).	TE: 308A-308B, 308-309, 310A-310B, 310-311, 312A-312B, 312-314, 320A-320B, 320-321, 322A-322B, 322-324, 326A-326B, 326-328 PE: 308-309, 310-311, 312-314, 320-321, 322-324, 326-328	I
Benchmark MA.B.2.2.2: The student selects and uses appropriate standard and nonstandard units of measurement, according to type and size.	1.knows an appropriate unit of measure to determine the dimension(s)of a given object (for example, standard –student chooses feet or inches instead of yards to measure a classroom desk; nonstandard –student chooses a pencil or his or her hand to measure a classroom desk).	TE: 309, 319, 321, 325 PE: 309, 319, 321, 325	I
	2.knows an appropriate unit of measure (standard or nonstandard) to measure weight and capacity.	TE: 311, 314, 324, 327 PE: 311, 314, 324, 327	I

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GRADE: Four

STRAND: Measurement

STANDARD: Standard 3: The student estimates measurements in real-world problem situations.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.B.3.2.1: The student solves real-world problems involving estimates of measurements, including length, time, weight, temperature, money, perimeter, area, and volume.	1.knows how to determine whether an accurate or estimated measurement is needed for a solution.	TE: 339, 350, 463 PE: 339, 350, 463	I
	2.using real-world settings, objects, graph paper, or charts, solves problems involving estimated measurements, including the following: •length to nearest half-inch, centimeter •weight to nearest ounce, gram •time to nearest five-minute interval •temperature to nearest five-degree interval •money to nearest \$1.00 (combination of coin and currency)	TE: 64A-64B, 64-66, 306A-306B, 306-307, 312, 318A-318, 318-319, 322, 326A-326B, 326-328, 336A-336B, 336-339, 347 PE: 64-66, 306-307, 312, 318-319, 322, 326-328, 336-339, 347	I
	3.knows how to estimate the area and perimeter of regular and irregular polygons using graph paper, geoboard, or other objects.	TE: 454-455, 456B, 457-458, 463 PE: 454-455, 457-458, 463	I
	4.knows how to estimate the volume of a rectangular prism using manipulatives or graphic representation.	TE: 468A-468B, 468-469 PE: 468-469	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Measurement

STANDARD: Standard 4: The student selects and uses appropriate units and instruments for measurement to achieve the degree of precision and accuracy required in real-world situations.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.B.4.2.1: The student determines which units of measurement, such as seconds, square inches, dollars per tankful, to use with answers to real-world problems.	1.selects an appropriate measurement unit for labeling the solution to real-world problems.	TE: 309, 311, 314, 321, 328, 452A-452B, 452-453 PE: 309, 311, 314, 321, 328, 452-453	I
Benchmark MA.B.4.2.2: The student selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real-world situations.	1.selects and uses the appropriate tool for situational measures (for example, measuring sticks, scales and balances, thermometers, measuring cups, gauges).	TE: 306A–306B, 306–307, 308A, 310B, 312B, 312, 318A–318B, 318–319, 322B, 322, 325, 326, 347, 410A-410B, 410-411 PE: 306–307, 312, 318–319, 322, 325, 326, 347, 410-411	I

**CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS**

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Geometry and Spatial Sense

STANDARD: Standard 1: The student describes, draws, identifies, and analyzes two-and three- dimensional shapes.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.C.1.2.1: The student given a verbal description, draws and/or models two-and three-dimensional shapes and uses appropriate geometric vocabulary to write a description of a figure or a picture composed of geometric figures.	1.uses appropriate geometric vocabulary to describe properties and attributes of two-and three-dimensional figures (for example, faces, edges, vertices, diameter).	TE: 404A-404B, 404-407, 408A-408B, 408-409, 412A-412B, 412-414, 416A-416B, 416-417, 422A-422B, 422-424, 430A-430B, 430-432, 464A-464B, 464-467, 485 PE: 404-407, 408-409, 412-414, 416-417, 422-424, 430-432, 464-467, 485	I
	2.draws and classifies two-dimensional figures having up to eight or more sides.	TE: 404A-404B, 404-406, 408A-408B, 408-409, 410A-410B, 410-411, 412A-412B, 412-414, 416A-416B, 416-417, 425 PE: 404-406, 408-409, 410-411, 412-414, 416-417, 425	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Geometry and Spatial Sense

STANDARD: Standard 3: The student uses coordinate geometry to locate objects in both two-and three- dimensions and to describe objects algebraically.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.C.2.2.1: The student understands the concepts of spatial relationships, symmetry, reflections, congruency, and similarity.	1.uses manipulatives to solve problems requiring spatial visualization.	TE: 425, 430–432, 433, 434A–434B, 434–435, 436B, 436–438, 440B, 440–443, 444B, 444, 448–449, 464A–464B, 464–467, 481 PE: 430–438, 440–443, 448–449, 464–467, 481	I
	2.knows symmetry, congruency, and reflections in geometric figures using drawings and concrete materials (for example, pattern blocks, mirrors).	TE: 430A–430B, 430–432, 434A–434B, 434–435, 436A–436B, 436–437, 440A–440B, 440–443 PE: 430–432, 434–435, 436–437, 440–443	I
	3.knows and creates congruent and similar figures.	TE: 430A–430B, 430–432, 433, 436A–436B, 436–437 PE: 430–432, 433, 436–437	I
Benchmark MA.C.2.2.2: The student predicts, illustrates, and verifies which figures could result from a flip, slide, or turn of a given figure.	1.identifies and performs flips, slides, and turns given angle (90° , 180°) and direction (clockwise or counterclockwise) of turn, using concrete and graphic materials (for example, pattern blocks, geoboards, grid paper).	TE: 422A–422B, 422–424, 434A–434B, 434–435, 440A–440B, 440–443, 639 PE: 422–424, 434–435, 440–443, 639	I
	2.knows the effect of a flip, slide, or turn (90° , 180°) on a geometric figure.	TE: 422A–422B, 422–424, 434A–434B, 434–435, 440A–440B, 440–443, 639 PE: 422–424, 434–435, 440–443, 639	I
	3.explores tessellations.	TE: 476–477 PE: 476–477	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Geometry and Spatial Sense

STANDARD: Standard 3: The student uses coordinate geometry to locate objects in both two-and three- dimensions and to describe objects algebraically.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.C.3.2.1: The student represents and applies a variety of strategies and geometric properties and formulas for two-and three-dimensional shapes to solve real-world and mathematical problems.	1.compares the concepts of area and perimeter using concrete materials (for example, color tiles, grid paper) and real-world situations (for example, carpeting a floor, fencing a yard).	TE: 452A-452B, 452-453, 460A-460B, 460-462, 484 PE: 452-453, 460-462, 484	I
	2.applies the concepts of area and perimeter to solve real-world and mathematical problems.	TE: 452A-452B, 452-453, 454A-454B, 454-455, 456A-456B, 456-458, 460A-460B, 460-462, 470A-470B, 470-472, 480 PE: 452-453, 454-455, 456-458, 460-462, 470-472, 480	I
	3.knows how area and perimeter are affected when geometric figures are combined.	TE: 458, 460A-460B, 460-462 PE: 458, 460-462	I
Benchmark MA.C.3.2.2: The student identifies and plots positive ordered pairs (whole numbers) in a rectangular coordinate system (graph).	1.knows how to identify, locate, and plot ordered pairs of whole numbers on a graph or on the first quadrant of a coordinate system.	TE: 616A-616B, 616-617, 618A-618B, 618-619, 620A-620B, 620-622, 627, 628A-628B, 628-630, 634-635, 638, 639 PE: 616-617, 618-619, 620-622, 627, 628-630, 634-635, 638, 639	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Algebraic Thinking

STANDARD: Standard 1: The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.D.1.2.1: The student describes a wide variety of patterns and relationships through models, such as manipulatives, tables, graphs, rules using algebraic symbols.	1.describes, extends, and creates numerical and geometric patterns using a variety of models (for example, lists, tables, charts).	TE: 63, 73, 90A-90B, 90-91, 98A-98B, 98-99, 105, 126A-126B, 126-127, 247, 258A-258B, 258-259, 309, 321, 360A-360B, 360-362, 418A-418B, 418-420, 476-477, 554A-554B, 554-556, 620A-620B, 620-622, 623, 628A-628B, 628-630 PE: 63, 73, 90-91, 98-99, 105, 126-127, 247, 258-259, 309, 321, 360-362, 418-420, 476-477, 554-556, 620-622, 623, 628-630	I
	2.poses, solves, and explains problems by identifying a predictable visual or numerical pattern such as: Input 1 2 3 7 Output \$3 \$6 \$9 ?	TE: 63, 73, 90A-90B, 90-91, 98A-98B, 98-99, 105, 126A-126B, 126-127, 247, 258A-258B, 258-259, 309, 321, 418A-418B, 418-420, 423, 463, 476-477, 507, 554A-554B, 554-556, 607, 620A-620B, 620-622, 623, 628A-628B, 628-630 PE: 63, 73, 90-91, 98-99, 105, 126-127, 247, 258-259, 309, 321, 418-420, 423, 463, 476-477, 507, 554-556, 607, 620-622, 623, 628-630	I
Benchmark MA.D.1.2.2: The student generalizes a pattern, relation, or function to explain how a change in one quantity results in a change in another.	1.knows mathematical relationships in patterns (for example, the second shape is the first shape turned 90 °).	TE: 63, 73, 231, 247, 258A-258B, 258-259, 309, 321, 418A-418B, 418-420, 423, 521, 554A-554B, 554-556, 607, 620A-620B, 620-622, 623, 628A-628B, 628-630 PE: 63, 73, 231, 247, 258-259, 309, 321, 418-420, 423, 521, 554-556, 607, 620-622, 623, 628-630	I

**CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS**

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Algebraic Thinking

STANDARD: Standard 1: The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
	2.analyzes number patterns and states rules for relationships (for example, 2, 4, 7, 9, 12, ...; the rule is: +2, +3, +2, +3, ...).	TE: 63, 90A-90B, 90-91, 96, 98A-98B, 98-99, 126A-126B, 126-127, 132-133, 216, 236, 247, 258A-258B, 258-259, 554A-554B, 554-556, 623 PE: 63, 90-91, 96, 98-99, 126-127, 132-133, 216, 236, 247, 258-259, 554-556, 623	I
	3.discusses, explains, and analyzes the rule that applies to the pattern.	TE: 90A-90B, 90-91, 98A-98B, 98-99, 126A-126B, 126-127, 132-133, 247, 554A-554B, 554-556, 623 PE: 90-91, 98-99, 126-127, 132-133, 247, 554-556, 623	I
	4.applies the appropriate rule to complete a table or a chart.	TE: 75, 90A-90B, 90-91, 96, 98A-98B, 98-99, 126A-126B, 126-127, 132-133, 162, 216, 231, 236, 309, 321, 521, 620A-620B, 620-623 PE: 75, 90-91, 96, 98-99, 126-127, 132-133, 162, 216, 231, 236, 309, 321, 521, 620-623	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Algebraic Thinking

STANDARD: Standard 2: The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.D.2.2.1: The student represents a given simple problem situation using diagrams, models, and symbolic expressions translated from verbal phrases, or verbal phrases translated from symbolic expressions, etc.	1.solves problems involving equations or simple inequalities using manipulatives, diagrams or models, symbolic expressions, or written phrases.	TE: 112A-112B, 112-114, 116A-116B, 116-117, 118A-118B, 118-120, 121, 122A-122B, 122-123, 126A-126, 126-127, 317, 620A-620B, 620-622 PE: 112-114, 116-117, 118-120, 121, 122-123, 126-127, 317, 620-622	I
	2.uses a variable to represent a given verbal expression (for example, seven times a number is 7 n).	TE: 112A-112B, 112-114, 118A-118B, 118-120, 122A-122B, 122-124, 203, 622 PE: 112-114, 118-120, 122-124, 203, 622	I
	3.translates problem-solving situations into expressions and equations using a variable for the unknown.	TE: 112A-112B, 112-114, 116A-116B, 116-117, 118A-118B, 118-120, 122A-122B, 122-124, 126A-126B, 126-127 PE: 112-114, 116-117, 118-120, 122-124, 126-127	I
Benchmark MA.D.2.2.2: The student uses informal methods, such as physical models and graphs to solve real-world problems involving equations and inequalities.	1.uses physical or pictorial models and graphs (for example, cubes, number lines) to solve equations or inequalities.	TE: 121, 317, 620A-620B, 620-622 PE: 121, 317, 620-622	I

**CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS**

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Algebraic Thinking

STANDARD: Standard 2: The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
	2.uses information from physical models, graphs, or tables to solve problems.	TE: 12, 97, 126A–126B, 126–127, 364B, 548, 603, 606, 620A–620B, 620–622, 628A-628B, 628-629 PE: 12, 97, 126–127, 548, 603, 606, 620–622, 628-629	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Data Analysis and Probability

STANDARD: Standard 1: The student understands and uses the tools of data analysis for managing information.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.E.1.2.1: The student solves problems by generating, collecting, organizing, displaying, and analyzing data using histograms, bar graphs, circle graphs, line graphs, pictographs, and charts.	1.knows the purpose of different parts of a graph (for example, titles, labels, intervals, key).	TE: 40A–40B, 40–42, 376A–376B, 376–377, 378A–378B, 378–379, 380A–380B, 380–381, 382A–382B, 382–383, 384A–384B, 384–386, 387, 398, 534A–534B, 534–535, 628A–628B, 628–630 PE: 40–42, 376–377, 378–379, 380–381, 382–383, 384–386, 387, 398, 534–535, 628–629	I
	2.chooses reasonable titles and labels for graphs.	TE: 368A–368B, 368–369, 376A–376B, 376–377, 382A–382B, 382–383, 384A–384B, 384–386 PE: 368–369, 376–377, 382–383, 384–386	I
	3.interprets and compares information from different types of graphs including graphs from content–area materials and periodicals.	TE: 40A–40B, 40–42, 366A–366B, 366–367, 368A–368B, 368–370, 376A–376B, 376–377, 378A–378B, 378–379, 380A–380B, 380–381, 384A–384B, 384–385, 628A–628B, 628–629 PE: 40–42, 366–367, 368–370, 376–377, 378–379, 380–381, 384–385, 628–629	I
	4.generates questions, collects responses, and displays data on a pictograph, circle graph, bar, double bar, or line graph.	TE: 356A–356B, 356–358, 359, 376A–376B, 376–377, 378A–378B, 378–379, 382A–382B, 382–383, 384A–384B, 384–385 PE: 356–358, 359, 376–377, 378–379, 382–383, 384–385	I
	5.interprets and completes circle graphs using common fractions.	TE: 378A–378B, 378–379, 534A–534B, 534–535 PE: 378–379, 534–535	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Data Analysis and Probability

STANDARD: Standard 1: The student understands and uses the tools of data analysis for managing information.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
	6.analyzes and explains orally or in writing the implications of data displays.	TE: 364A–364B, 364–365, 368A-368B, 368–370, 376A-376B, 376–377, 380A-380B, 380-381, 382A-382B, 382-383, 384A–384B, 384–386, 387, 603, 606 PE: 364–365, 368–370, 376–377, 380-381, 382-383, 384-386, 387, 603, 606	I
Benchmark MA.E.1.2.2: The student determines range, mean, median, and mode from sets of data.	1.identifies the mean, median and mode from a set of data.	TE: 262A–262B, 262–263, 264A–264B, 264–266, 364A–364B, 364–365, 368A-368B, 368-369, 371, 383, 399, 606 PE: 262–263, 264-266, 364–365, 368-369, 371, 383, 399, 606	I
	2.identifies the range on a line graph.	TE: 382A-382B, 382-383 PE: 382-383	I
Benchmark MA.E.1.2.3: The student analyzes real-world data to recognize patterns and relationships of the measures of central tendency using tables, charts, histograms, bar graphs, line graphs, pictographs, and circle graphs generated by appropriate technology, including calculators and computers.	1.uses a calculator to determine the range and mean of a set of data.	TE: 264A-264B, 264-266, 364A-364B, 364-365 PE: 264-266, 364-365	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

SUBMISSION TITLE: Houghton Mifflin MATH © 2005

PUBLISHER: Houghton Mifflin Company

GRADE: Four

STRAND: Data Analysis and Probability

STANDARD: Standard 1: The student understands and uses the tools of data analysis for managing information.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
	2.uses computer applications to examine and evaluate data.	TE: 263, 266, 365, 386 PE: 398	I
	3.uses computer applications to construct graphs.	TE: 358, 362, 367, 370 PE: 398	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

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GRADE: Four

STRAND: Data Analysis and Probability

STANDARD: Standard 2: The student identifies patterns and makes predictions from an orderly display of data using concepts of probability and statistics.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.E.2.2.1: The student uses models, such as tree diagrams, to display possible outcomes and to predict events.	1.determines the number of possible combinations of given items and displays them in an organized way.	TE: 604A–604B, 604–605, 608A–608B, 608–610 PE: 604–605, 608–610	I
	2.represents all possible outcomes for a simple probability situation or event using models such as organized lists, charts, or tree diagrams.	TE: 592, 604A–604B, 604–606, 608A–608B, 608–610 PE: 592, 604–606, 608–610	I
	3.calculates the probability of a particular event occurring from a set of all possible outcomes.	TE: 592, 598A–598B, 598–600, 602A–602B, 602–603, 608A–608B, 608–610 PE: 592, 598–600, 602–603, 608–610	I
Benchmark MA.E.2.2.2: The student predicts the likelihood of simple events occurring.	1.identifies and records using common fractions, the possible outcomes of simple experiments using concrete materials (for example, spinners, number cubes, coin toss).	TE: 592, 598A–598B, 598–600, 602A–602B, 602–603, 608A–608B, 608–610 PE: 592, 598–600, 602–603, 608–610	I
	2.determines and predicts which outcomes are likely to occur and expresses those expected outcomes as fractions.	TE: 592, 596A–596B, 596–597, 598A–598B, 598–600, 601, 602A–602B, 602–603 PE: 592, 596–597, 598–600, 601, 602–603	I
	3.conducts experiments to test predictions.	TE: 602A–602B, 602–603, 611 PE: 602–603, 611	I

CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Mathematics

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GRADE: Four

STRAND: Data Analysis and Probability

STANDARD: Standard 3: The student uses statistical methods to make inferences and valid arguments about real-world situations.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
Benchmark MA.E.3.2.1: The student designs experiments to answer class or personal questions, collects information, and interprets the results using statistics (range, mean, median, and mode) and pictographs, charts, bar graphs, circle graphs, and line graphs.	1.designs a class survey to collect data.	TE: 356A-356B, 356-358, 367, 379, 384A-384B, 384-385, 643 PE: 356-358, 367, 379, 384-385, 643	I
	2.creates an appropriate graph to display data (for example, pictographs, bar graphs, line graphs, circle graphs).	TE: 367, 369, 376B, 376-377, 379, 382A-382B, 382-383, 384-385, 388, 394, 398, 421 PE: 367, 369, 376-377, 379, 382-383, 384-385, 388, 394, 398, 421	I
	3.determines appropriate statistical measures for data (range, mean, median, mode).	TE: 364A-364B, 364-365, 368A-368B, 368-370, 606 PE: 364-365, 368-370, 606	I
	4.explains the results using statistics (range and measures of central tendency).	TE: 262A-262B, 262-263, 264A-264B, 264-266, 364A-364B, 364-365, 366A-366B, 366-367, 369, 606 PE: 262-263, 264-266, 364-365, 366-367, 369, 606	I
Benchmark MA.E.3.2.2: The student uses statistical data about life situations to make predictions and justifies reasoning.	1.uses statistical data to identify trends.	TE: 380A-380B, 380-381, 382A-382B, 382-383, 602A-602B, 602-603, 620A-620B, 620-622, 628A-628B, 628-629 PE: 380-381, 382-383, 602-603, 620-622, 628-629	I

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GRADE: Four

STRAND: Data Analysis and Probability

STANDARD: Standard 3: The student uses statistical methods to make inferences and valid arguments about real-world situations.

BENCHMARK	GRADE LEVEL EXPECTATIONS	PAGE(S) OR LOCATION(S) WHERE TAUGHT	I/M
	2.applies statistical data to make generalizations.	TE: 356A-356B, 356-358, 364A-364B, 364-365, 369, 380A-380B, 380-381, 383, 606 PE: 356-358, 364-365, 369, 380-381, 383, 606	I
	3.justifies and explains generalizations.	TE: 356A-356B, 356-358, 364A-364B, 364-365, 380A-380B, 380A-380B, 380-381, 383, 601, 611 PE: 356-358, 364-365, 380-381, 383, 601, 611	I