

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations

NUMBER & OPERATIONS				
Understand and use number notation and place value				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.ME.04.01 Read and write numbers to 1,000,000; relate them to the quantities they represent; compare and order.	Unit 2, Sessions 1–4	September Calendar Grid September Calendar Collector September Problem Solving September–February Number Line	Set A3 Number & Operations: Place Value to Millions, Activities 1–3 and Ind. Worksheets 1–3 Bridges Practice Book, pp 21, 25, 29	Informal Set A3 Number & Operations: Place Value to Millions, Independent Worksheets 1–3 Bridges Practice Book, pp 25, 29
				Formal Number Corner. Vol. 1 & 2, pp 59–63, 97–101, 366–365 (Baseline Assessment, Checkups 2 & 4)
N.ME.04.02 Compose and decompose numbers using place value to 1,000,000's, e.g., 25,068 is 2 ten thousands, 5 thousands, 0 hundreds, 6 tens, and 8 ones.	Unit 2, Sessions 1–4	September Calendar Grid September Calendar Collector September Problem Solving September–February Number Line	Set A3 Number & Operations: Place Value to Millions, Activities 1–3 and Ind. Worksheets 1–3 Bridges Practice Book, pp 21, 25, 29	Informal Set A3 Number & Operations: Place Value to Millions, Independent Worksheets 1–3 Bridges Practice Book, pp 25, 29
				Formal Number Corner. Vol. 1 & 2, pp 59–63, 97–101, 366–365 (Baseline Assessment, Checkups 2 & 4)
N.ME.04.03 Understand the magnitude of numbers up to 1,000,000; recognize the place values of numbers and the relationship of each place value to the place to its right, e.g., 1,000 is 10 hundreds.	Unit 2, Sessions 1–4	September Calendar Grid September Calendar Collector September Problem Solving September–February Number Line	Set A3 Number & Operations: Place Value to Millions, Activities 1–3 and Ind. Worksheets 1–3 Bridges Practice Book, pp 21, 25, 29	Informal Set A3 Number & Operations: Place Value to Millions, Independent Worksheets 1–3 Bridges Practice Book, pp 25, 29
				Formal Number Corner. Vol. 1 & 2, pp 59–63, 97–101, 366–365 (Baseline Assessment, Checkups 2 & 4)
Use factors and multiples				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.ME.04.04 Find all factors of any whole number through 50, list factor pairs, and determine if a one-digit number is a factor of a given whole number	Unit 1, Sessions 11, 12 Unit 1, p 92 (HC 6) Unit 3, p 354 (HC 25)	September–January Number Line	Set A6 Number & Operations: Fractions & Mixed Numbers, Activity 2 Bridges Practice Book, pp 17, 42, 105, 107	Formal Unit 1, Sessions 7 & 21 (Unit Pre- and Post-Assessments)

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations (cont.)

NUMBER & OPERATIONS				
Use factors and multiples				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.ME.04.05 List the first ten multiples of a given one-digit whole number; determine if a whole number is a multiple of a given one-digit whole number		Sept–November Number Line January–February Number Line	Bridges Practice Book, pp 15, 126, 129	Formal Number Corner Teacher's Guide, pp 365–369 (Checkup 4)
N.MR.04.06 Know that some numbers including 2, 3, 5, 7, and 11 have exactly two factors (1 and the number itself) and are called prime numbers.	Unit 1, Session 12 Unit 1, p 92 (HC 6)	March Number Line	Bridges Practice Book, p 17	
N.MR.04.07 Use factors and multiples to compose and decompose whole numbers.	Unit 1, Sessions 11, 12 Unit 1, p 92 (HC 6)		Bridges Practice Book, pp 17, 42	
Add and subtract whole numbers				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.FL.04.08 Add and subtract whole numbers fluently.		December, January Number Line October Problem Solving May Calendar Collector	Bridges Practice Book, pp 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 16, 17, 26, 32, 37, 38, 40, 89	Informal Bridges Practice Book, pp 1, 3, 5, 6, 7, 9, 17, 37, 38
				Formal Number Corner Teacher's Guide, pp 60–63, 97–100, 211–214, 289–292, 365–369 (Baseline Checkup, Checkups 1, 2, 3, 4)
Multiply and divide whole numbers				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5 using the distributive property, e.g., $21 \times 3 = (1 + 20) \times 3 = (1 \times 3) + (20 \times 3) = 3 + 60 = 63$.	Unit 1, Sessions 13, 14, 15, 16 Unit 2, Sessions 11, 14, 15, 20	December Computational Fluency	Set A5 Number & Operations: Multi-Digit Multiplication, Activities 4–12 and Independent Worksheets 3, 5, 7, 8 Bridges Practice Book, pp 35, 66, 69, 71, 73, 77	

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NUMBER & OPERATIONS				
Multiply and divide whole numbers				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.	Unit 2, Sessions 6-11, 14-17, 19 Unit 2, pp 215–216, 244 (Home Connections 15 & 17)	November Problem Solving February–April Problem Solving	Set A5 Number & Operations: Multi-Digit Multiplication, Activities 2–13 and Ind. Worksheets 1–9 Bridges Practice Book, pp 68, 71, 77, 79, 87, 94, 95, 136	Informal Unit 2, Session 14 (Work Sample)
				Formal Unit 2, Sessions 5 & 21 (Unit Pre-and Post-Assessments) Set A5 Multi-Digit Multiplication, Activities 1 & 14 Number Corner Teacher's Guide, pp 60–63, 211–214, 365–368 (Baseline Assessment, Checkups 2 & 4)
N.FL.04.11 Divide numbers up to four-digits by one-digit numbers and by 10.	Unit 3, Session 12–19 Unit 8, Sessions 14, 17, 18	November Problem Solving January Problems Solving February Problem Solving March Problem Solving April Problem Solving	Bridges Practice Book, pp 23, 24, 82	Informal Unit 3, Sessions 13 & 17 (Work Samples)
				Formal Unit 1, pp 54–57 (Ind. Interview) Unit 3, Session 2 & 20 (Unit Pre- and Post Assessments) Number Corner Teacher's Guide, pp 211–214, 365–369 (Checkups 2 & 4)
N.FL.04.12 Find the value of the unknowns in equations such as $a \div 10 = 25$; $125 \div b = 25$.			Set B1 Algebra: Equations & Operations, Activities 1–4 and Independent Worksheets 1–3 Bridges Practice Book, pp 23, 123	Formal Number Corner Teacher's Guide, pp 289–292 (Checkup 3)
N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.	Unit 1, Sessions 9, 10 Unit 3, Session 12–16, 19 Unit 6, p 661 (HC 42)		Set B1 Algebra: Equations & Operations, Activities 1–4 and Independent Worksheets 1–3 Bridges Practice Book, pp 13, 25, 65, 87, 123, 126, 129	

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NUMBER & OPERATIONS				
Multiply and divide whole numbers				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.MR.04.14 Solve contextual problems involving whole number multiplication and division.	Unit 1, Session 10 Unit 2, Sessions 6–7, 9, 12, 14, 17–19 Unit 2, pp 163, 244 (Home Connections 11 & 17) Unit 2, p 192 (Multiplication Challenge Problems) Unit 3, Session 12–13, 17–18 Unit 8, Sessions 14, 17–18	November Problem Solving February–April Problem Solving March Problem Solving April Problem Solving	Set A5 Number & Operations: Multi-Digit Multiplication, Activities 2, 4, 9, 13 and Independent Worksheets 1, 3, 5, 9 Bridges Practice Book, pp 12, 14, 16, 18, 24, 34, 36, 54, 58, 60, 70, 72, 74, 76, 80, 94, 96	Informal Unit 2, Session 14 (Work Sample) Unit 3, Sessions 13 & 17 (Work Samples) Bridges Practice Workbook, pp 74, 80, 89, 116
				Formal Unit Pre- and Post-Assessments Unit 1, Sessions 7 & 21 Unit 2, Sessions 5 & 21 Unit 3, Sessions 2 & 20 Bridges Supplement Set A5 Number & Operations: Multi-Digit Multiplication, Activities 1 & 14 Number Corner Teacher's Guide, pp 60–63, 289–292 (Baseline Assessment, Checkup 3)
Read, interpret and compare decimal fractions				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.ME.04.15 Read and interpret decimals up to two decimal places; relate to money and place value decomposition.	Unit 6, Sessions 9–14 Unit 6, pp 715, 723–724, 730 (Home Connections 46, 47, 48)	December Calendar Collector March–May Number Line	Bridges Practice Book, pp 31, 111, 113, 115, 117, 118, 120, 137	Informal Unit 6, Sessions 9–10, 13 (Work Samples)
				Formal Unit 6, Sessions 1 & 22 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 211–214 (Checkup 2)
N.ME.04.16 Know that terminating decimals represents fractions whose denominators are 10, 10×10 , $10 \times 10 \times 10$, etc., e.g., powers of 10.	Unit 5, Session 4 Unit 6, Sessions 7–10, 12–14, 18–20 Unit 6, pp 715, 723–724, 730 (Home Connections 46, 47, 48) Unit 8, Session 14	December Calendar Collector March–May Number Line	Bridges Practice Book, pp 113, 115, 118, 137	Informal Unit 6, Sessions 9–10, 13 (Work Samples)
				Formal Unit 6, Sessions 1 & 22 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 211–214, 365–369 (Check Ups 2 & 4)

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations (cont.)

NUMBER & OPERATIONS				
Read, interpret and compare decimal fractions				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.ME.04.17 Locate tenths and hundredths on a number line.	Unit 6, Session 18	March–May Number Line	Bridges Practice Book, pp 117	Formal Number Corner Teacher's Guide, pp 365–369 (Checkup 4)
N.ME.04.18 Read, write, interpret, and compare decimals up to two decimal places.	Unit 6, Sessions 9–20 Unit 6, pp 715, 723–724, 730 (Home Connections 46, 47, 48)	December Calendar Collector March–May Number Line	Bridges Practice Book, pp 111, 113, 115, 117, 119, 137	Informal Unit 6, Session 10 (Work Sample)
				Formal Unit 6, Sessions 1 & 22 (Unit Pre- and Post-Assessments & Student Reflection Sheet) Number Corner Teacher's Guide, pp 365–369 (Checkup 4)
N.MR.04.19 Write tenths and hundredths in decimal and fraction forms, and know the decimal equivalents for halves and fourths.	Unit 5, Session 4 Unit 6, Sessions 7–10, 12–14, 18–20 Unit 6, pp 715, 723–724, 730 (Home Connections 46, 47, 48) Unit 8, Session 14	December Calendar Collector March–May Number Line	Bridges Practice Book, pp 111, 113, 115, 119, 137	Informal Unit 6, Sessions 9–10, 13 (Work Samples)
				Formal Unit 6, Sessions 1 & 22 (Unit Pre- and Post-Assessments & Student Reflection Sheet) Number Corner Teacher's Guide, pp 211–214, 365–369 (Checkups 2 & 4)
Understand fractions				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.ME.04.20 Understand fractions as parts of a set of objects.	Unit 3, Sessions 3–7, 9–11 Unit 3, pp 298, 310, 318, 329 (HC's 20, 21, 22, 23) Unit 3, pp 334–335 (WP 3B) Unit 6, Sessions 2	December Calendar Collector March Calendar Grid	Set A9 Number & Operations: Adding & Subtracting Fractions, Independent Worksheets 1, 2 & 3 Bridges Practice Book, pp 41, 42, 44, 45, 49, 55, 59, 63, 67, 83	Formal Unit 3, Sessions 2 & 20 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 289–292 (Checkup 3)
N.MR.04.21 Explain why equivalent fractions are equal, using models such as fraction strips or the number line for fractions with denominators of 12 or less, or equal to 100.	Unit 3, Sessions 3, 5–9, 11 Unit 3, pp 310, 318 (HC's 21, 22) Unit 6, Sessions 2, 3	October Calendar Collector December Calendar Collector March Calendar Grid April Calendar Collector	Set A6 Number & Operations: Fractions & Mixed Numbers, Activities 1 & 2 Bridges Practice Book, pp 41, 42, 45, 46, 47, 59, 101, 105, 107, 109, 111, 113, 115, 117, 119, 137	Formal Unit 3, Sessions 2 & 20 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 60–63, 289–292 (Baseline Checkup, Checkup 3)

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations (cont.)

NUMBER & OPERATIONS				
Understand fractions				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.MR.04.22 Locate fractions with denominators of 12 or less on the number line; include mixed numbers	Unit 3, Session 3 Unit 6, Sessions 10, 11, 14, 18 Unit 6, pp 673, 715, 724 (Home Connections 43, 46, 47)	December Calendar Collector May Number Line	Set A6 Number & Operations: Fractions, Mixed Numbers & Decimals, Activity 2 Set A9 Number & Operations: Adding & Subtracting Fractions, Independent Worksheet 2 Bridges Practice Book, pp 42, 43, 44, 46, 47, 48, 57, 67, 103, 109, 111, 113, 115, 117, 119, 137	Informal Bridges Practice Book, pp 42, 43, 44, 46, 57, 67, 103, 109, 111, 113, 115, 117, 119, 137
N.MR.04.23 Understand the relationships among halves, fourths, and eighths and among thirds, sixths, and twelfths.	Unit 3, Sessions 3–7, 9 Unit 6, Sessions 2, 3	March Calendar Grid	Set A6 Number & Operations: Fractions & Mixed Numbers, Activities 1 & 2 Bridges Practice Book, pp 41, 42, 81, 109	Formal Unit 3, Sessions 2 & 20 (Unit Pre- and Post-Assessments)
N.ME.04.24 Know that fractions of the form m/n where m is greater than n , are greater than 1 and are called improper fractions; locate improper fractions on the number line.			Set A6 Number & Operations, Activities 1 & 2 Bridges Practice Book, pp 45, 46, 47, 101, 109	
N.MR.04.25 Write improper fractions as mixed numbers, and understand that a mixed number represents the number of “wholes” and the part of a whole remaining.		April Calendar Collector	Set A6 Number & Operations, Activities 1 & 2 Set A9 Number & Operations: Adding & Subtracting Fractions, Independent Worksheets 1, 2 & 3 Bridges Practice Book, pp 45, 47, 63, 101, 109	
N.MR.04.26 Compare and order up to three fractions with denominators 2, 4, and 8, and 3, 6, and 12, including improper fractions and mixed numbers.	Unit 3, Sessions 3, 5, 6, 11 Unit 3, pp 298, 310, 318 (HC's 20, 21, 22) Unit 6, Sessions 2, 3 Unit 6, pp 673, 723–724 (HC's 43, 47)	April Calendar Collector	Set A6 Number & Operations, Activity 2 Bridges Practice Book, pp 43, 44, 46, 47, 48, 57, 67, 103, 109, 115, 117, 119	Formal Unit 3, Sessions 2 & 20 (Unit Pre- and Post-Assessments)

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NUMBER & OPERATIONS				
Add and subtract fractions				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.MR.04.27 Add and subtract fractions less than 1 with denominators through 12 and/or 100, in cases where the denominators are equal or when one denominator is a multiple of the other.	Unit 3, Sessions 3, 8, 9, 11 Unit 3, pp 332–334 (WP 3A) Unit 3, pp 298 (HC 20) Unit 6, Sessions 3, 13	December Calendar Collector March Problem Solving April Calendar Collector	Set A6 Number & Operations: Fractions & Mixed Numbers, Activity 1 Set A9 Number & Operations: Adding & Subtracting Fractions, Independent Worksheets 1 & 2 Bridges Practice Book, pp 102	Informal Bridges Practice Book, pp 102, 103
				Formal Unit 3, Sessions 2 & 20 (Unit Pre- and Post-Assessments)
N.MR.04.28 Solve contextual problems involving sums and differences for fractions where one denominator is a multiple of the other (denominators 2 through 12, and 100).	Unit 3, Sessions 3, 9 Unit 3, pp 298 (HC 20)	April Calendar Collector	Bridges Practice Book, p 102	Formal Unit 3, Sessions 2 & 20 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 365–369 (Checkup 4)
N.MR.04.29 Find the value of an unknown in equations such as $\frac{1}{8} + x = \frac{5}{8}$ or $\frac{3}{4} - y = \frac{1}{2}$.	Not Addressed			
Multiply fractions by whole numbers				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.MR.04.30 Multiply fractions by whole numbers, using repeated addition and area or array models.	Unit 3, p 381 (HC 27) Unit 6, Sessions 3, 13		Bridges Practice Book, p 120	
Add and subtract decimal fractions				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.MR.04.31 For problems that use addition and subtraction of decimals through hundredths, represent with mathematical statements and solve.	Unit 6, Sessions 15–17, 20 Unit 6, pp 730, 740 (Home Connections 48, 49) Unit 6, pp 755–756 (WP 6D) Unit 8, Session 13	March, April & May Number Line	Bridges Practice Book, pp 5, 6, 32, 38, 40, 89, 112, 114, 116, 120	Formal Unit 6, Sessions 1 & 22 (Unit Pre- and Post-Assessments)
				Formal Unit 6, Sessions 1 & 22 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 60–63, 211–214 (Baseline Checkup, Checkup 2)
N.FL.04.32 Add and subtract decimals through hundredths.	Unit 6, Sessions 15–17, 20 Unit 6, pp 730, 740 (Home Connections 48, 49) Unit 6, pp 755–756 (WP 6D) Unit 8, Session 13	March, April & May Number Line	Bridges Practice Book, pp 5, 6, 32, 38, 40, 89, 112, 114, 116, 120	

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations (cont.)

NUMBER & OPERATIONS				
Multiply and divide decimal fractions				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.FL.04.33 Multiply and divide decimals up to two decimal places by a one-digit whole number where the result is a terminating decimal, e.g., $0.42 \div 3 = 0.14$, but not $5 \div 3 = 1.6$.	Unit 2, Sessions 12, 13 Unit 2, p 186 (HC 13) Unit 6, Session 12 Unit 8, Sessions 13, 14, 17		Set A5 Number & Operations: Multi-Digit Multiplication, Activity 9 and Ind. Worksheets 1, 5	Formal Number Corner Teacher's Guide, pp 289–292 (Checkup 3)
Estimate				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.	Unit 2, Sessions 7, 9, 11, 14–16 Unit 3, Sessions 18, 19	December Problem Solving April Problem Solving	Set A4 Number & Operations: Estimating to Multiply & Divide, Independent Worksheets 1, 2 & 3 Set A5 Number & Operations: Multi-Digit Multiplication, Activities 2–13 and Ind. Worksheets 1–9 Bridges Practice Book, pp 23, 24, 33, 34, 35, 36, 53, 61, 63, 66, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 87, 88, 94, 95, 96, 104, 116, 136, 140	Informal Unit 2, Session 14 (Work Sample) Bridges Practice Book, pp 68, 75, 77, 79, 87, 94, 95, 96, 136, 140
				Formal Unit 2, Sessions 5 & 21 (Unit Pre- and Post Assessments & Student Reflection Sheet) Set A5 Number & Operations, Multi-Digit Multiplication, Activities 1 & 14
N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place-value errors in calculations.	Unit 2, Sessions 7, 9, 11, 14–16 Unit 3, Sessions 18, 19	December Problem Solving April Problem Solving	Set A4 Number & Operations: Estimating to Multiply & Divide, Independent Worksheets 1, 2 & 3 Set A5 Number & Operations: Multi-Digit Multiplication, Activities 2–13 and Ind. Worksheets 1–9 Bridges Practice Book, pp 23, 24, 33, 34, 35, 36, 53, 61, 63, 66, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 87, 88, 94, 95, 96, 104, 116, 135, 136, 140	Informal Unit 2, Session 14 (Work Sample) Bridges Practice Book, pp 68, 75, 77, 79, 87, 94, 95, 96, 136, 140
N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	Unit 2, Sessions 6, 7, 9, 11, 15, 16 Unit 3, Sessions 17–19 Unit 8, Session 14	November Number Line December Number Line December Problem Solving January Number Line March Number Line March Calendar Collector May Calendar Collector Number Corner Student Book, pp 36, 39, 42	Set A5 Number & Operations: Multi-Digit Multiplication, Activities 4, 5, 6, 8, 9, 11, 12 and Independent Worksheet 5 Bridges Practice Book, pp 9, 37, 73, 75, 77, 79, 91, 94, 96, 100, 110	Informal Bridges Practice Book, pp 9, 73, 75, 77, 79, 91, 94, 96, 100, 110
				Formal Set A5 Number & Operations, Multi-Digit Multiplication, Activities 1 & 14 Number Corner Vol. 2, pp 211–214 (Checkup 2)

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations (cont.)

MEASUREMENT				
Measure using common tools and appropriate units				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
M.UN.04.01 Measure using common tools and select appropriate units of measure.	Unit 1, Sessions 6, 20 Unit 1, pp 123–124 (HC 10) Unit 2, Session 3, 5, 6 Unit 3, pp 285, 345–346, 354 (HC's 19, 24, 25) Unit 4, Sessions 15, 16, 18 Unit 4, pp 515–516 (Challenge) Unit 8, Sessions 2, 3, 4, 8, 9, 10, 13, 16, 18	October Calendar Collector November Calendar Collector January Problem Solving March Calendar Collector April Calendar Grid April Problem Solving Number Corner Student Book, pp 56, 60, 84, 87, 91	Set C2 Geometry: 2- and 3-D Shapes, Ind. Worksheets 1, 2 & 3 Bridges Practice Workbook, pp 10, 20, 22, 28, 64, 80, 88, 98, 106, 108, 110, 127, 130, 138, 139, 140	Informal Bridges Practice Workbook, pp 20, 64, 80, 88, 130, 138, 140
M.PS.04.02 Give answers to a reasonable degree of precision in the context of a given problem.	Unit 2, Sessions 3, 5 Unit 2, p 174 (HC 12) Unit 3, pp 345–346, 354 (Home Connections 24, 25) Unit 8, Sessions 10, 13, 16, 17	December Problem Solving March Calendar Collector		
M.UN.04.03 Measure and compare integer temperatures in degrees.			Set D8 Measurement: Temperature, Activities 1–3	
M.TE.04.04 Measure surface area of cubes and rectangular prisms by covering and counting area of the faces.	Unit 4, Sessions 16, 18			
Convert measurement units				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds.	Unit 2, Sessions 3–5 Unit 6, p 685 (HC 44) Unit 8, Sessions 8, 10, 12, 13	September Calendar Collector October Calendar Collector November Calendar Collector	Set A5 Number & Operations: Multi-Digit Multiplication, Activity 13 Set D1 Measurement: Weight & Mass, Activities 4–6 Set D3 Measurement: Capacity in Metric Units, Activities 1 & 2 and Independent Worksheet 1 Bridges Practice Book, pp 10, 27, 28, 50, 55, 56, 62, 78, 91, 100, 104, 106, 108, 110, 127, 138	Formal Number Corner Teacher's Guide, pp 97–101, 211–214 (Checkups 1, 2)

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations (cont.)

MEASUREMENT				
Use perimeter and area formulas				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
M.TE.04.06 Know and understand the formulas for perimeter and area of a square and a rectangle; calculate the perimeters and areas of these shapes and combinations of these shapes using the formulas.	Unit 1, Sessions 6, 8, 11, 19, 20 Unit 1, pp 123–124 (HC 10) Unit 2, Sessions 4, 6 Unit 3, p 285, 354 (HC's 19, 25)	January Problem Solving April Calendar Grid April Problem Solving	Set A5 Number & Operations: Multi-Digit Multiplication, Independent Worksheets 1, 3 Set D6 Measurement: Area & Perimeter, Activities 1, 2, 3, 4 and Independent Worksheets 1 & 2 Bridges Practice Book, pp 19, 20, 21, 22, 64, 80, 88, 98, 116, 121, 122, 130, 139, 140	Informal Set A5 Number & Operations: Multi-Digit Multiplication, Session 14 (Post-Assessment) Set D6 Measurement: Area & Perimeter, Ind. Worksheet 2 Bridges Practice Book, pp 20, 22, 64, 139 Formal Number Corner, Vol. 2, pp 211–214, 289–292 (Checkups 2, 3)
M.TE.04.07 Find one dimension of a rectangle given the other dimension and its perimeter or area.	Unit 1, Sessions 9, 10 Unit 3, Session 19	April Calendar Grid	Set D6 Measurement: Area & Perimeter, Ind. Worksheet 1	Formal Unit 1, Sessions 7 & 21 (Unit Pre- and Post-Assessments)
M.TE.04.08 Find the side of a square given its perimeter or area.		April Calendar Grid		
M.PS.04.09 Solve contextual problems about perimeter and area of squares and rectangles in compound shapes.	Unit 1, Sessions 19, 20 Unit 2, Session 6 Unit 2, p 227 (HC 16)	January Problem Solving	Set A5 Number & Operations: Multi-Digit Multiplication, Activities 2, 4, 8 and Ind. Worksheets 1, 3 Set D6 Measurement: Area & Perimeter, Activities 3 & 4 and Independent Worksheet 1 Bridges Practice Book, pp 20, 64, 80, 98, 99, 116, 120, 130, 138, 140	Formal Unit 1, Sessions 7 & 21 (Unit Pre- and Post-Assessments)
Understand right angles				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
M.TE.04.10 Identify right angles and compare angles to right angles.	Unit 4, Sessions 1, 2, 4 Unit 4, pp 463–465 (WP 4A) Unit 4, pp 432, 446, 458 (Home Connections 29, 30, 31)	November Calendar Grid April Calendar Grid Number Corner Student Book, p 91	Set C2 Geometry: 2- & 3-Dimensional Shapes, Independent Worksheets 1 & 4	Formal Unit 4, Sessions 3 & 21 (Unit Pre- and Post-Assessments)
Problem-solving				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
M.PS.04.11 Solve contextual problems about surface area.	Addressed in Bridges Grade 5			

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations (cont.)

GEOMETRY				
Understand perpendicular, parallel, and intersecting lines				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
G.GS.04.01 Identify and draw perpendicular, parallel, and intersecting lines using a ruler and a tool or object with a square (90°) corner.	Unit 1, Sessions 2, 3 Unit 4, Sessions 4, 14 Unit 4, pp 463–465 (WP 4A) Unit 4, pp 446, 458 (HC 30, 31)		Set C1 Geometry: Parallel, Perpendicular & Intersecting, Activity 1 and Independent Worksheets 1 & 2 Set C2 Geometry: 2- & 3-D Shapes, Ind. Worksheets 1–3	Formal Unit 4, Sessions 3 & 21 (Unit Pre- and Post-Assessments)
Identify basic geometric shapes and their components, and solve problems				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
G.GS.04.02 Identify basic geometric shapes including isosceles, equilateral, and right triangles, and use their properties to solve problems.	Unit 1, Sessions 2, 3 Unit 4, Sessions 2, 4–12 Unit 4, pp 446, 458, 481, 507 (HC's 30, 31, 32, 34)	April Calendar Grid	Set C2 Geometry: 2- and 3-Dimensional Shapes, Independent Worksheets 1, 2, 3 Set C4 Geometry: Triangles & More, Activity 2 and Independent Worksheets 3 & 4	
G.SR.04.03 Identify and count the faces, edges, and vertices of basic three-dimensional geometric solids including cubes, rectangular prisms, and pyramids; describe the shape of their faces.	Unit 4, Sessions 13–20 Unit 4, pp 481, 507 (HC's 32, 34) Unit 4, pp 512–513 (WP 4D)			Formal Unit 4, Sessions 3 & 21 (Unit Pre- and Post-Assessments)
Recognize symmetry and transformations				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
G.TR.04.04 Recognize plane figures that have line symmetry.	Unit 4, Sessions 1, 2, 8, 9, 12 Unit 4, pp 473–475 (WP 4C) Unit 4, p 457–458, 516 (HC's 31, 35)			Formal Unit 4, Sessions 3 & 21 (Unit Pre- and Post-Assessments)
G.TR.04.05 Recognize rigid motion transformations (flips, slides, turns) of a two-dimensional object.	Unit 3, Session 1 Unit 4, Sessions 5–9, 12 Unit 4, pp 491–492 (HC 33)	November Calendar Grid	Set C2 Geometry: 2- and 3-Dimensional Shapes, Independent Worksheets 2	Formal Unit 4, Sessions 3 & 21 (Unit Pre- and Post-Assessments)

Bridges Grade 4 Correlations to Michigan Mathematics Grade Level Expectations (cont.)

DATA AND PROBABILITY				
Represent and solve problems for given data				
GLCE's	Bridges	Number Corner	Bridges Supplement	Assessments
D.RE.04.01 Construct tables and bar graphs from given data.	Unit 5, Sessions 3, 5, 12, 13 Unit 8, Sessions 2–4, 7, 9, 11, 16–18	January Calendar Collector February Calendar Collector March Calendar Collector May Calendar Collector	Bridges Practice Book, pp 89, 132	Formal Unit 5, Session 18 (Unit Post-Assessment) Unit 8, Session 19 (Unit Post-Assessment)
D.RE.04.02 Order a given set of data, find the median, and specify the range of values.	Unit 5, Session 11 Unit 5, p 627 (HC 41) Unit 8, Sessions 3, 5, 6, 7, 17, 18		Bridges Practice Book, pp 132, 134	Informal Unit 8, Sessions 6, 7, 17, 18 (Work Samples)
				Formal Unit 8, Sessions 1 & 19 (Unit Pre- and Post-Assessments)
D.RE.04.03 Solve problems using data presented in tables and bar graphs, e.g., compare data represented in two bar graphs and read bar graphs showing two data sets.	Unit 5, Sessions 5, 13 Unit 7, Sessions 11, 12 Unit 7, p 844 (HC 53) Unit 8, Sessions 3, 5, 6, 7, 9, 10, 11, 17, 18	January Calendar Collector February Calendar Collector	Bridges Practice Book, pp 82, 85, 89, 92, 131, 132, 134	Formal Unit Pre- and Post-Assessments Unit 5, Sessions 1 & 18 Unit 7, Sessions 4 & 14 Unit 8, Sessions 1 & 19 Number Corner Teacher's Guide, pp 282–294, 365–369 (Checkups 3, 4)