

Grade 4

Learning Goals mapped to Indiana Academic Standards

Everyday Mathematics Learning Goals				Indiana Academic Math Standard		ISTEP+
Unit 1 Naming and Constructing Geometric Figures						
1	a	B	Use a compass and straightedge to construct geometric figures. (Lessons 1.6 and 1.8)	4.4.1	Identify, describe, and draw rays, right angles, acute angles, obtuse angles and straight angles using appropriate mathematical tools and technology.	ISTEP+ T1 #1-2
				4.4.3	Identify, describe and draw parallelograms, rhombuses, and trapezoids, using appropriate mathematical tools and technology.	ISTEP+ T1 #5-6
1	b	D	Identify properties of polygons. (Lessons 1.3- 1.7)			
1	c	D	Classify quadrangles according to side and angle properties. (Lessons 1.3-1.6)	4.4.1	Identify, describe, and draw rays, right angles, acute angles, obtuse angles and straight angles using appropriate mathematical tools and technology.	ISTEP+ T1 #1-2
				4.4.3	Identify, describe and draw parallelograms, rhombuses, and trapezoids, using appropriate mathematical tools and technology. (L 1.3)	ISTEP+ T1 #5-6
1	d	S	Name, draw, and label line segments, lines and rays. (Lessons 1.2, 1.4, and 1.8)			
1	e	S	Name, draw, and label angles, triangles, and quadrangles. (Lessons 1.3-1.5 and 1.8)	4.4.1	Identify, describe, and draw rays, right angles, acute angles, obtuse angles and straight angles using appropriate mathematical tools and technology.	ISTEP+ T1 #1-2
				4.4.3	Identify, describe and draw parallelograms, rhombuses, and trapezoids, using appropriate mathematical tools and technology. (L 1.3)	ISTEP+ T1 #5-6
1	f	S	Identify and describe right angles and parallel lines and line segments. (Lessons 1.2-1.4)	4.4.2	Identify, describe and draw parallel, perpendicular, and oblique lines using appropriate mathematical tools and technology.	ISTEP+ T1 #3-4
1	g	S	Solve addition and subtraction facts. (Lessons 1.1-1.5)			
Unit 2 Using Numbers and Organizing Data						
2	a	D	Display data with a line plot, bar graph, or tally chart. (Lessons 2.5, 2.6, and 2.8)	4.6.2	Interpret data graphs to answer questions about a situation.	ISTEP+ T2 #14-15
2	b	D	Use the statistical landmarks median, mode, and range. (Lessons 2.5, 2.6, and 2.8)			
2	c	S	Use the statistical landmarks maximum and minimum. (Lessons 2.5, 2.6, and 2.8)			
2	d	S	Have a successful strategy for subtracting multidigit numbers. (Lesson 2.9)	4.2.1	Understand and use standard algorithms for addition and subtraction.	ISTEP+ T2 #1-10
2	e	S	Have a successful strategy for adding multidigit numbers. (Lesson 2.7)	4.2.1	Understand and use standard algorithms for addition and subtraction.	ISTEP+ T2 #1-10

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2	f	S	Read and write numerals to hundred-millions; give the value of the digits in numerals to hundred-millions. (Lessons 2.3 and 2.4)	4.1.1	Read and write whole numbers up to 1,000,000.	ISTEP+ T2 #11-12
				4.1.2	Identify and write whole numbers up to 1,000,000, given a place-value model.	
2	g	S	Give equivalent names for numbers. (Lesson 2.2)			
Unit 3 Multiplication and Division; Number Sentences and Algebra						
3	a	D	Solve open sentences. (Lesson 3.10)			
3	b	D	Insert parentheses to make true number sentences. Solve problems with parentheses. (Lessons 3.9 and 3.10)	4.3.3	Understand that multiplication and division are performed before addition and subtraction in expressions without parentheses. (L 3.9)	ISTEP+ T3 #7-8
				4.3.1	Use letters, boxes, or other symbols to represent any number in simple expressions, equations, or inequalities.	ISTEP+ T3 #6
3	c	D	Determine whether number sentences are true or false. (Lessons 3.8-3.10)	4.1.4	Order and compare whole numbers using symbols for "less than" (<), "equal to" (=), and "greater than" (>). (L 3.8)	ISTEP+ T3 #1-3
3	d	D	Use and explain strategies for solving addition and subtraction number stories. (Lessons 3.7 and 3.11)			
3	e	D	Use a map scale to estimate distances. (Lessons 3.6, 3.8, and 3.11)			
3	f	S	Solve basic division facts. (Lessons 3.4-3.6, and 3.9)	4.2.4	Demonstrate mastery of the multiplication tables for numbers between 1 and 10 and of the corresponding division facts.	ISTEP+ T3 #4-5
3	g	S	Solve multiplication facts. (Lessons 3.1-3.6 and 3.9)	4.2.4	Demonstrate mastery of the multiplication tables for numbers between 1 and 10 and of the corresponding division facts.	ISTEP+ T3 #4-5
3	h	S	Understand the relationship between multiplication and division. (Lessons 3.4-3.6 and 3.9)	4.3.6	Recognize and apply the relationships between addition and multiplication, between subtraction and division, and the inverse relationship between multiplication and division to solve problems.	ISTEP+ T3 #9
Unit 4 Decimals and Their Uses						
4	a	D	Express metric measures with decimals. (Lesson 4.9)			
4	b	D	Convert between metric measures. (Lessons 4.7 and 4.9)	4.5.2	Subtract units of length that may require renaming of feet to inches or meters to centimeters.	ISTEP+ T4 #6-7; Problem Solving #2
4	c	D	Read and write decimals to thousandths. (Lessons 4.1-4.6)			
4	d	D	Compare and order decimals. (Lesson 4.2)			
4	e	D	Draw and measure line segments to the nearest millimeter. (Lesson 4.9)	4.5.1	Measure length to the nearest quarter inch, eighth inch, and millimeter.	ISTEP+ T4 #4-5
4	f	D	Use personal references to estimate lengths in metric units. (Lesson 4.8)			

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4	g	D	Solve 1- and 2-place decimal addition and subtraction problems and number stories. (Lessons 4.4 and 4.5)	4.2.9	Add and subtract decimals using objects or pictures.	ISTEP+ T4 #1
				4.2.10	Use a standard algorithm to add and subtract decimals.	ISTEP+ T4 #2-3, 8-9
4	h	S	Draw and measure line segments to the nearest centimeter. (Lesson 4.9)			
4	i	S	Use dollars-and-cents notation. (Lesson 4.5)	4.5.10	Determine the amount of change from a purchase.	ISTEP+ T4 #2-3, 8-9
Unit 5 Big Numbers, Estimation, and Computation						
5	a	B	Use exponential notation to represent powers of 10. (Lesson 5.9)			
5	b	D	Solve extended multiplication facts. (Lessons 5.1 and 5.2)	4.2.2	Represent as multiplication any situation involving repeated addition. (L 5.1)	ISTEP+ T5 #2-4
5	c	D	Make magnitude estimates for products of multidigit numbers. (Lesson 5.4)	4.2.11	Know and use strategies for estimating results of any whole-number computations.	ISTEP+ T5 #7; Problem Solving #4
5	d	D	Solve multidigit multiplication problems. (Lessons 5.2 and 5.5-5.7)	4.2.5	Use a standard algorithm to multiply numbers up to 100 by numbers up to 10, using relevant properties of the number system.	ISTEP+ T5 #5-6
5	e	D	Round whole numbers to a given place. (Lessons 5.3, 5.4, and 5.10)	4.1.3	Round whole numbers up to 10,000 to the nearest ten, hundred, and thousand.	ISTEP+ T5 #1
5	f	D	Read and write numbers to billions; name the values of digits in numerals to billions. (Lessons 5.8, 5.10, and 5.11)			
5	g	S	Compare large numbers. (Lessons 5.8, 5.10, and 5.11)			
5	h	S	Estimate sums. (Lesson 5.3)	4.2.11	Know and use strategies for estimating results of any whole-number computations.	ISTEP+ T5 #7
				4.2.12	Use mental arithmetic to add or subtract numbers rounded to hundreds or thousands. (L 5.3-5.4)	ISTEP+ T5 #7

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Unit 6 Division; Map Reference Frames; Measures of Angles						
6	a	B	Identify locations on Earth for which latitude and longitude are given; find latitude and longitude for given locations. (Lessons 6.9 and 6.10)			
6	b	D	Have a successful strategy for solving whole-number division problems. (Lessons 6.1-6.3)	4.2.6	Use a standard algorithm to divide numbers up to 100 by numbers up to 10 without remainders, using relevant properties of the number system. (L 6.2)	ISTEP+ T6 #2-3
6	c	D	Express the remainder of a whole-number division problem as a fraction and the answer as a mixed number. (Lessons 6.4 and 6.5)	4.2.3	Represent as division any situation involving the sharing of objects or the number of groups of shared objects.	ISTEP+ T6 #1
6	d	D	Interpret the remainder in division problems. (Lesson 6.4)	4.2.3	Represent as division any situation involving the sharing of objects or the number of groups of shared objects.	ISTEP+ T6 #1
6	e	D	Name and locate points specified by ordered number pairs on a coordinate grid. (Lessons 6.5 and 6.7)			
6	f	D	Identify acute, right, obtuse, straight, and reflex angles. (Lesson 6.8)			
6	g	D	Make turns and fractions of turns; relate turns and angles. (Lessons 6.6 and 6.7)			
6	h	D	Use a circular protractor and a half-circle protractor to measure and draw angles. (Lessons 6.6-6.9)			
6	i	D	Use and explain strategies for solving multiplication and division number stories. (Lessons 6.1 and 6.3)	4.3.6	Recognize and apply the relationships between addition and multiplication, between subtraction and division, and the inverse relationship between multiplication and division to solve problems. (L 6.1)	
Unit 7 Fractions and Their Uses; Chances and Probability						
7	a	B	Add and subtract fractions. (Lessons 7.4 and 7.5)	4.2.8	Add and subtract simple fractions with different denominators, using objects or pictures.	ISTEP+ T6 #5-6
7	b	D	Rename fractions with denominators of 10 and 100 as decimals. (Lessons 7.4 and 7.5)			
7	c	D	Apply basic vocabulary and concepts associated with chance events. (Lesson 7.8)			
7	d	D	Compare and order fractions. (Lesson 7.11 and 7.12)	4.6.3	Summarize and display the results of probability experiments in a clear and organized way.	ISTEP+ T6 #8
7	e	D	Find fractions equivalent to a given fraction. (Lessons 7.6 and 7.7)			
7	f	S	Identify the whole for fractions. (Lessons 7.1, 7.3, and 7.10)	4.1.6	Name and write mixed numbers, using objects or pictures. (L 7.1)	ISTEP+ T6 #4
				4.1.5	Rename and rewrite whole numbers as fractions. (L 7.10)	ISTEP+ T6 #4
7	g	S	Identify fractional parts of a collection of objects. (Lesson 7.2)			

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7	h	S	Identify fractional parts of regions. (Lessons 7.1-7.3, 7.5, and 7.9)	4.1.6	Name and write mixed numbers, using objects or pictures. (L 7.1)	ISTEP+ T6 #4
Unit 8 Perimeter and Area						
8	a	B	Make and interpret scale drawings. (Lessons 8.2, 8.3, and 8.5)	4.5.3	Know and use formulas for finding the perimeters of rectangles and squares. (L 8.1-8.2)	ISTEP+ T7 #3-4
8	b	D	Use formulas to find area of rectangles, parallelograms, and triangles. (Lessons 8.5-8.8)	4.5.4	Know and use formulas for finding the area of rectangles and squares.	ISTEP+ T7 #6
				4.5.5	Estimate and calculate the area of rectangular shapes by using appropriate units, such as square centimeter, square meter, square inch, or square yard. (L 8.3-8.7)	ISTEP+ T7 #7
				4.5.6	Understand that rectangles with the same area can have different perimeters and that rectangles with the same perimeter can have different areas. (L 8.7)	ISTEP+ T7 #8-9
				4.3.2	Use and interpret formulas to answer questions about quantities and their relationships. (L 8.5-8.7)	ISTEP+ T7 #1-2
8	c	D	Find the perimeter of a polygon. (Lessons 8.1, 8.2, and 8.7)	4.5.1	Measure length to the nearest quarter-inch, eighth-inch, and millimeter. (L 8.1)	ISTEP+ T7 #6
8	d	D	Estimate the area of a figure by counting unit squares and fractions of unit squares inside the figure. (Lessons 8.3-8.7)	4.5.5	Estimate and calculate the area of rectangular shapes by using appropriate units, such as square centimeter, square meter, square inch, or square yard.	ISTEP+ T7 #1-2
				4.5.7	Find areas of shapes by dividing them into basic shapes such as rectangles and triangles. (L 8.3-8.7)	ISTEP+ T7 #10
				4.1.7	Name and write mixed numbers as improper fractions, using objects or pictures.	
				4.3.2	Use and interpret formulas to answer questions about quantities and their relationships. (L 8.5-8.7)	
			Lesson 8.6	4.4.2	Identify, describe and draw parallel , perpendicular , and oblique lines using appropriate mathematical tools and technology.	
Unit 9 Percents						
9	a	B	Use an estimation strategy to divide decimals by whole numbers. (Lesson 9.9)			
9	b	B	Use an estimation strategy to multiply decimals by whole numbers. (Lesson 9.8)			
9	c	D	Find a percent or a fraction of a number. (Lessons 9.1-9.3 and 9.6)			
9	d	D	Give equivalencies between "easy" fractions (fourths, fifths, and tenths), decimals, and percents. (Lessons 9.1-9.3)			

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9	e	S	Give equivalencies between hundredths-fractions, decimals and percents. (Lessons 9.1 and 9.2)	4.1.8	Write tenths and hundredths in decimal and fraction notations. Know the fraction and decimal equivalents for halves and fourths.	ISTEP+ T8 #1
9	f	S	Use a calculator to rename any fraction as a decimal or percent. (Lessons 9.3-9.5 and 9.7)			
Unit 10 Reflections and Symmetry						
10	a	B	Add integers. (Lesson 10.6)			
10	b	B	Rotate figures. (Lessons 10.4 and 10.5)			
10	c	D	Translate figures. (Lesson 10.5)			
10	d	S	Use a transparent mirror to draw the reflection of a figure. (Lessons 10.1-10.3)			
10	e	S	Identify lines of symmetry, lines of reflection, reflected figures, and figures with line symmetry. (Lessons 10.2-10.6)	4.4.5	Identify and draw lines of symmetry in polygons. (L 10.4)	ISTEP+ T8 #2
Unit 11 3-D Shapes, Weight, Volume and Capacity						
11	a	B	Use a formula to calculate the volume of rectangular prisms. (Lesson 11.5)	4.5.8	Use volume and capacity as different ways of measuring the space inside a shape.	
11	b	B	Subtract positive and negative integers. (Lesson 11.6)			
11	c	D	Add positive and negative integers. (Lessons 11.5 and 11.6)	4.5.8	Use volume and capacity as different ways of measuring the space inside a shape. (L 11.5)	
11	d	D	Estimate the weight of objects in ounces or grams; weigh objects in ounces or grams. (Lessons 11.1 and 11.7)			
11	e	D	Solve cube-stacking volume problems. (Lessons 11.4 and 11.5)	4.3.2	Use and interpret formulas to answer questions about quantities and their relationships. (L 11.5)	
				4.5.8	Use volume and capacity as different ways of measuring the space inside a shape. (L 11.5)	
11	f	D	Describe properties of geometric solids. (Lessons 11.2 and 11.3)	4.4.6	Construct cubes and prisms and describe their attributes.	
Unit 12 Rates						
12	a	D	Find unit rates (Lessons 12.2-12.5)			
12	b	D	Calculate unit prices to determine which product is the "better buy". (Lessons 12.4 and 12.5)			
12	c	D	Evaluate the reasonableness of rate data. (Lesson 12.3)			
12	d	D	Collect and compare rate data. (Lessons 12.1 and 12.3-12.5)			
12	e	S	Solve rate problems, using rate tables as necessary. (Lessons 12.2-12.4 and 12.6)	4.3.7	Relate problem situations to number sentences involving multiplication and division. (L 12.2)	ISTEP+ T8 #3
			Lesson 12.1	4.2.4	Demonstrate mastery of the multiplication tables for numbers between 1 and 10 and of the corresponding division facts.	ISTEP+ Problem Solving #1