

MATH 7 PACING

Lesson	Objective	Days	Level
Chapter 1: Decimals and Integers		21	
1-1	Estimation strategies	1	D
1-2	Adding and subtracting decimals	1	M/A
	Properties of Addition (commutative and associative)		D
	Properties of Addition (identity)		I/D
1-3	Multiply decimals	2	M/A
	Properties of Multiplication (commutative and associative)		D
	Properties of Multiplication (identity and zero)		I/D
	Obj. 1: Divide decimals		D/T
1-4	Estimating using metric system	2	D
	Obj. 2: Converting units within a system (metric)		D/T
	Obj. 3: Recognize equivalences of metric measures		D/T
1-5	Utilize problem solving strategies	1	D
1-6	Opposites, absolute value, ordering and comparing integers	1	M/A
1-7	Obj. 4: Add integers	3	D/T
	Obj. 5: Subtract integers		D/T
	Determine measures of variation (range)		I/D
1-8	Obj. 6: Multiply integers	2	D/T
	Obj. 7: Divide integers		D/T
1-9	Obj. 8: Apply order of operations	2	D/T
	Distributive property		D
1-10	Obj. 9: Determine measures of central tendency (mean, median, mode)	2	D/T
	Finding measures of variation (outlier)		I/D
Ch 1	Review, Quizzes, Test	4	---
DISTRICT ASSESSMENT #1			
Chapter 2: Equations and Inequalities		18	
Supp.	Add and subtract to simplify polynomial expressions	1	D

2-1	Evaluate algebraic expressions through numerical substitution	1	D
	Write algebraic expressions		D
2-2	Solve equations through substitution, mental math, & estimation	1	D
2-3	Solve equations by adding	2	D
	Solve equations by subtracting		D
2-4	Solve equations by dividing	2	D
	Solve equations by multiplying		D
2-5	Write expressions with two operations	2	D
	Evaluate two-step equations		I
2-6	Solve two-step equations	1	I
2-7	Write linear equations	1	D
2-8	Graph linear inequalities	2	I
	Write linear inequalities		D
	Obj. 10: Recognize and use \geq , \leq and \neq		D/T
2-9	Solve inequalities by adding	1	D
	Solve inequalities by subtracting		D
2-10	Solve inequalities by dividing	1	D
	Solve inequalities by multiplying		D
	Solve two-step inequalities		I
Ch. 2	Review, Quizzes, Test	3	---
Chapter 3: Exponents, Factors and Fractions		16	
Supp.	Write and evaluate powers (0 and negative)	1	I
3-1	Obj. 11: Write and evaluate powers (positive exponents)	1	D/T
	Obj. 12: Recognize exponents		D/T
	Obj. 13: Apply order of operations to problems (with exponents)		D/T
3-2	Write numbers in scientific notation	2	D
	Write numbers in standard form		M/A

3-3 & 3-4	Use divisibility tests	2	
	Find factors		M/A
	Obj. 14: Identify greatest common factors		D/T
	Obj. 15: Identify least common multiples		D/T
	Determine prime/composite numbers		M/A
	Use prime factorization		M/A
3-5	Write equivalent fractions	1	M/A
	Simplify fractions		M/A
3-6	Compare & order fractions	1	M/A
3-7	Utilize problem solving strategies	1	D
3-8	Write mixed numbers as improper fractions	1	M/A
	Write improper fractions as mixed numbers		M/A
3-9	Write terminating decimals	2	M/A
	Write repeating decimals		M/A
	Writing a decimal as a fraction		M/A
	Order fractions and decimals		M/A
3-10	Recognize and name rational numbers	1	D
	Compare & order rational numbers		D
Ch. 3	Review, Quizzes, Test	3	---
Chapter 4: Operations with Fractions		13	
4-8	Obj. 20: Recognize equivalences of standard measures	1	D/T
4-1	Estimate with fractions	1	D
4-2	Add/subtract fractions	1	M/A
4-3	Obj. 16: Add/subtract mixed numbers	1	D/T
4-4	Obj. 17: Multiply fractions/mixed numbers	1	D/T
4-5	Obj. 18: Use and determine reciprocals	1	D/T
	Obj. 19: Divide fractions		D/T
4-6	Solve one step equations (with fractions)	2	D
	Solve two step equations (with fractions)		I
4-7	Utilize problem solving techniques	1	D

4-8	Obj. 21: Convert units within a system (customary) (length, capacity, & weight)	1	D/T
Ch. 4	Review, Quizzes, Test	3	---
DISTRICT ASSESSMENT #2			
Chapter 5: Ratios, Rates, and Proportions		11	
5-1	Write ratios	1	M/A
	Write ratios as decimals		M/A
	Write equal ratios		M/A
	Write ratio in simplest form		M/A
5-2	Obj. 22: Use ratio and proportion (unit rates)	1	D/T
5-3	Utilize problem solving strategies	1	D
5-4	Obj. 22: Use ratio and proportion (writing)	1	D/T
5-5	Obj. 22: Use ratio and proportion (solving)	1	D/T
5-6	Identify similar figures	2	M/A
	Obj. 22: Use ratio and proportion		D/T
	Use ratio & proportion to determine the unknown sides of similar triangles		D
5-7	Obj. 22: Use ratio and proportion (scale drawings)	1	D/T
Ch. 5	Review, Quizzes, Test	3	---
Chapter 6: Percents		13	
6-1	Understand percents	1	M/A
6-2	Obj. 23: Relate & convert fractions to percents	1	D/T
	Relate & convert fractions to decimals		M/A
6-3	Use & determine percents, including those greater than 100% & less than 1%	1	D
6-4 & 6-5	Find a percent of a number	1	M/A
	Solve percent problems using proportions		M/A
6-6	Solve percent problems using equations	1	I/D
6-7	Solve percent problems (tax, tip, commission)	2	M/A
6-8	Calculate percent of change	2	D
6-9	Utilize problem solving strategies	1	D
Ch. 6	Review, Quizzes, Test	3	---

Chapter 7: Geometry		14	
7-1	Identify segments, rays, & lines	1	M/A
	Obj. 24: Identify parallel, intersecting, & perpendicular lines		D/T
7-2	Measure angles	2	M/A
	Recognize angle relationships		D
	Determine angle measures using angle relationships		D
	Classify angle pairs		D
7-3	Construct segment bisectors	1	I
	Construct angle bisectors		I
7-4	Identify & use properties of subsets of polygons (triangles)	1	D
7-5	Identify & use properties of subsets of polygons (quadrilaterals)	1	D
	Identify & use relationships among parts of complex 2D figures (parallel sides, congruent faces, etc.)		D
7-6	Utilize problem solving strategies	1	D
7-7	Identify congruent figures	1	D
7-8	Identify parts of circles	1	M/A
7-9	Select an appropriate method to display data (circle graph)	2	D
	Based on data analysis, draw conclusions & develop convincing arguments		D
	Make predictions based on analysis		D
Ch. 7	Review, Quizzes, Test	3	---
Chapter 8: Geometry and Measurement		18	
Supp.	Use formula to find perimeter of common & complex figures	1	D
8-1	Estimate length & area	1	M/A
8-2	Determine area of triangles & parallelograms	1	D
8-3	Determine area of trapezoids	2	D
	Determine area of an irregular figure		D
8-4	Determine the circumference of a circle	2	D
	Determine area of circles		D
8-5	Recognize & name irrational numbers	1	I
	Approximate an irrational number		I
	Write & evaluate square roots		I
8-6	Use the Pythagorean Theorem to find the length of any side in a right triangle	1	I/D

8-7	Identify & use relationships among parts of complex 3D figures (parallel sides, congruent faces, etc)	1	D
8-8	Determine surface area of prisms	2	I/D
8-9	Obj. 25: Measure/determine volume of rectangular prisms	1	D/T
Supp.	Measure/determine volume of other 3D figures	1	I
8-10	Utilize problem solving strategies	1	D
Ch. 8	Review, Quizzes, Test	3	---
DISTRICT ASSESSMENT #3			
Chapter 9: Patterns and Rules		14	
9-1	Create a scatter plot & estimate a line to fit the data	1	I/D
	Make predictions based on analysis		D
9-2	Given an algebraic or geometric sequence, find the nth tem of the sequence	1	D
9-3	Express sequences algebraically	2	D
9-4	Express sequences algebraically	2	D
	Evaluate a linear function given the independent variable		I
	Name ordered pair values that are solutions to a linear equation		I
9-5	Given an algebraic or geometric sequence, find the nth tem of the sequence	1	D
	Graph the line representing nth solution to a linear equation		I
9-7	Solve percent problems using equations (simple & compound interest)	2	D
9-8	Utilize problem solving strategies	1	D
	Write linear equations		D
9-9	Solve for a variable in a formula with one step	2	I/D
Ch. 9	Review, Quizzes, Test	2	---
Chapter 10: Graphing in the Coordinate Plane		10	
10-1	Graphing points	1	M/A
10-2	Graph the line representing the solution of a linear equation	1	D
	Identify & recognize relationships expressed in tables & graphs		I
	Name ordered pairs that are solutions to a linear equation & plot these values		I
10-3	Determine the slope of a line	1	I/D
10-4	Identify & recognize non-linear relationships expressed in tables & graphs	1	I

10-5	Utilize problem solving strategies	1	D
	Identify & recognize relationships expressed in tables & graphs		I
10-6	Analyze transformations & relate properties to similarity & congruence (translation)	1	D
10-7	Analyze transformations & relate properties to similarity & congruence (reflection)	1	D
	Identify lines of symmetry		M/A
10-8	Analyze transformations & relate properties to similarity & congruence (rotation)	1	D
Ch. 10	Review, Quizzes, Test	2	---
Chapter 11: Displaying and Analyzing Data		11	
11-1	Obj. 26: Based on data analysis, draw conclusions & develop convincing arguments	1	D/T
	Obj. 27: Make predictions based on analysis		D/T
	Select an appropriate method to display data (histogram, frequency table, line plot)		D
11-2	Obj. 26: Based on data analysis, draw conclusions & develop convincing arguments	1	D/T
	Obj. 27: Make predictions based on analysis		D/T
	Select an appropriate method to display data (double bar, double line)		D
	Design various methods to gather data		D
11-3	Obj. 26: Based on data analysis, draw conclusions & develop convincing arguments	2	D/T
	Obj. 27: Make predictions based on analysis		D/T
	Select an appropriate method to display data (stem-and-leaf, box-and-whisker)		D
11-4	Utilize problem solving strategies	1	D
	Use logical reasoning (inductive & deductive)		D
11-6	Obj. 22: Use ratio and proportion (estimate populations)	1	D/T
11-7	Obj. 26: Based on data analysis, draw conclusions & develop convincing arguments	1	D/T
	Obj. 27: Make predictions based on analysis		D/T
	Recognize that data can be manipulated		D
11-8	Obj. 27: Make predictions based on analysis	1	D/T
	Create a scatter plot for a data set & estimate a line to fit the data		D
Ch. 11	Review, Quizzes, Test	3	---

Chapter 12: Using Probability		9	
Supp.	Use lengths & areas to determine theoretical geometric probabilities	1	D
12-1	Obj. 28: Predict theoretical probability	1	D/T
	Obj. 29: Relate & compare theoretical probabilities		D/T
	Obj. 30: Express probability as decimals &/or percents		D/T
12-2	Obj. 30: Express probability as decimals &/or percents	1	D/T
	Obj. 31: Relate & compare experimental probabilities		D/T
12-3	Utilize problem solving strategies	1	D
	Develop simulations to predict an event		I
	Use model/simulation to generate data		D
	Obj. 32: Use tree diagrams, tables, & systematic listing to count outcomes, choices, & possibilities		D/T
12-4	Obj. 32: Use tree diagrams, tables, & systematic listing to count outcomes, choices, & possibilities	1	D/T
12-5	Recognize dependent/independent events	1	I
Ch. 12	Review, Quizzes, Test	3	---
DISTRICT ASSESSMENT #4			
<p>These objectives have been deleted from the 7th grade curriculum. They are all either I or I/D in 8th grade, and we need the time in 7th grade.</p>			
9-6	Relating graphs to events		I
11-5	Collect a random sample from a population		I
	Write unbiased survey questions		I
12-6	Recognize & calculate permutation situations		I
12-7	Recognize & calculate combination situations		I

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