

7th Grade Mathematics TAKS Matrix

7th Grade TAKS test

TEKS	Student Expectation	2003	2004	2005	Priority
OBJECTIVE 1	Number Operations, and Quantitative Reasoning	10 Total	10 Total	10 Total	10 Total
7.1A	compare and order integers and positive rational numbers	26	38	32	H
7.1B	convert between fractions, decimals, whole numbers, and percents mentally, on paper, or with a calculator	3	14,31	41	H
7.1C	represent squares and square roots using geometric models	39	33,42	31	H
7.2A	represent multiplication and division situations involving fractions and decimals with concrete models, pictures, words, and numbers	10	24	6	H
7.2B	use addition, subtraction, multiplication, and division to solve problems involving fractions and decimals	1		21	H
7.2C	use models to add, subtract, multiply and divide integers and connect the actions to algorithms	19	27	20	H
7.2D	use division to find unit rates and ratios in proportional relationships such as speed, density, price, recipes, student-teacher ratio	34	1	27	H
7.2E	simplify numerical expressions involving order of operations and exponents	30	30	5	H
7.2F	select and use appropriate operations to solve problems and justify the selections	37		3	H
7.2G	determine the reasonableness of a solution to a problem	48	45	39	H

OBJECTIVE 2	Patterns, Relationships, and Algebraic Reasoning	10 Total	10 Total	10 Total	10 Total
7.3A	estimate and find solutions to applications problems involving percent	17,32	16,25	19,35	H
7.3B	estimate and find solutions to applications problems involving proportional relationships such as similarity, scaling, unit costs, and related measurement units	28,45	47	7,15	H
7.4A	generate formulas involving conversions, perimeter, area, circumference, volume, and scaling	6,15	4	24	H
7.4B	graph data to demonstrate relationships in familiar concepts such as conversions, perimeter, area, circumference, volume, and scaling	36	19,32	4	H
7.4C	describe the relationship between the terms in a sequence and their positions in the sequence	35	12,20	37	H
7.5A	use concrete models to solve equations and use symbols to record the actions	34	44	17,46	H
7.5B	formulate a possible problem situation when given a simple equ	16	37	25	H

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OBJECTIVE 3	Geometry and Spatial Reasoning	7 Total	7 Total	7 Total	7 Total
7.6A	use angle measurements to classify pairs of angles as complementary or supplementary	13	5	30	H
7.6B	use properties to classify shapes including triangles, quadrilaterals, pentagons, and circles	40	15		H
7.6C	use properties to classify solids, including pyramids, cones, prisms, and cylinders	29		1	H
7.6D	use critical attributes to define similarity	22	9		H
7.7A	locate and name points on a coordinate plane using ordered pairs of integers	44	2,34	48	H
7.7B	graph translations on a coordinate plane		43	14	M
7.8A	sketch a solid when given the top, side and front view	5	39	44	H
7.8B	make a net of two-dimensional model of the surface area of a solid	46		34	H
7.8C	use geometric concepts and properties to solve problems in fields such as art and architecture			29	H
OBJECTIVE 4	Measurement	5 Total	5 Total	5 Total	5 Total
7.9	estimate measurements and solve application problems involving length including perimeter and circumference, area, and volume	9,14,21,25,33	7,11,17,21,22	8,11,23,28,38	H
OBJECTIVE 5	Probability and Statistics	7 Total	7 Total	7 Total	7 Total
7.10A	construct sample spaces for compound events dependent and independent	24	28	26,33	H
7.10B	find the approximate probability of a compound event through experimentation				M
7.11A	select and use an appropriate representation for presenting collected data and justify the selection	41	40	22	H
7.11B	make inferences and convincing arguments based on analysis of given or collected data	7,18	35,36	9	H
7.12A	describe a set of data using mean, median, mode, and range	27,42	26,46	40,42	H
7.12B	choose among mean, median, mode, or range to describe a set of data and justify the choice for a particular set of data	12	29	16	H

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OBJECTIVE 6	Mathematical Processes and Tools	9 Total	9 Total	9 Total	9 Total
7.13A	identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics	4,8	3,48	10	H
7.13B	use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness		6,8,18	36	H
7.13C	select or develop an appropriate problem-solving strategy from a variety of different types, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem	20,38		2,43,47	H
7.13D	select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems				M
7.14A	communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models	2,23,43	10,23	13,18	H
7.14B	evaluate the effectiveness of different representations to communicate ideas				M
7.15A	make conjectures from patterns or sets of examples and nonexamples	11,47	13	12,45	H
7.15B	validate his/her conclusions using mathematical properties and relationships		41		H