

Think Tank (Thinking Mathematically and Problem Solving) and TEKS

4th Grade

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Prickly Problems	1A	5AR	2NO	7GM	4NO	6GM	5AR	1C	5AR	4NO	5AR	2NO	9DA	4NO	2NO	6GM	4NO	6GM	1A	5AR
Brain Boosters	2NO	4NO	5AR	6GM	6GM	4NO	6GM	4NO	4NO	5AR	5AR	2NO	5AR	4NO	5AR	2NO	6GM	6GM	4NO	9DA
Cranium Crackers	1C	6GM	2NO	6GM	5AR	4NO	6GM	4NO	4NO	4NO	8GM	5AR	2NO	5AR	5AR	6GM	5AR	5AR	9DA	4NO
Quick Quizzes	5AR	5AR	4NO	6GM	3NO	5AR	4NO	9DA	5AR	4NO	6GM	2NO	6GM	9DA	6GM	5AR	8GM	2NO	6GM	5AR
Head Polishers	2NO	5AR	4NO	5AR	4NO	4NO	4NO	6GM	9DA	2NO	4NO	9DA	4NO	2NO	4NO	6GM	9DA	6GM	5AR	6GM
Mental Matters	2NO	5AR	4NO	4NO	5AR	5AR	2NO	6GM	4NO	6GM	5AR	6GM	4NO	4NO	4NO	6GM	5AR	1F	5AR	4NO
Cracker Jacks	4NO	4NO	6GM	4NO	2NO	5AR	2NO	6GM	6GM	5AR	5AR	5AR	6GM	5AR	4NO	6GM	4NO	4NO	1A	4NO
Thorough Thinkers	6GM	5AR	5AR	7GM	5AR	5AR	9DA	5AR	4NO	2NO	6GM	5AR	8GM	5AR	8GM	4NO	6GM	9DA	2NO	6GM
Cool Heads	2NO	8GM	2NO	4NO	4NO	4NO	6GM	8GM	5AR	5AR	5AR	9DA	6GM	5AR	6GM	5AR	5AR	4NO	4NO	8GM
Wise Wizards	3NO	6GM	8GM	4NO	5AR	3NO	6GM	4NO	9DA	5AR	4NO	5AR	9DA	7GM	6GM	9DA	4NO	5AR	4NO	5AR
Super Sleuths	4NO	5AR	4NO	8GM	6GM	6GM	9DA	2NO	6GM	2NO	5AR	5AR	5AR	9DA	5AR	2NO	6GM	5AR	5AR	3NO
Mega Minds	6GM	6GM	8GM	3NO	6GM	4NO	9DA	4NO	6GM	5AR	9DA	5AR	7GM	5AR	2NO	4NO	3NO	5AR	2NO	3NO

Texas Essential Knowledge and Skills

Standard 1 - Mathematical process standards

The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:

- (A) apply mathematics to problems arising in everyday life, society, and the workplace;
- (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;
- (C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems;
- (D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate;
- (E) create and use representations to organize, record, and communicate mathematical ideas;
- (F) analyze mathematical relationships to connect and communicate mathematical ideas; and
- (G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.

Standard 2 - Number and Operations (2NO) – Whole Number Comparison, Decimals, Relationships, Place Value

The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships related to place value.

Standard 3 – Number and Operations – Fractional (3NO)

The student applies mathematical process standards to represent and generate fractions to solve problems.

Standard 4 – Number and Operations – Whole Number and Decimal Computation (4NO)

The student applies mathematical process standards to develop and use strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy.

Standard 5 – Algebraic Reasoning – Expressions and Equations (5AR)

The student applies mathematical process standards to develop concepts of expressions and equations.

Standard 6 – Geometry and Measurement – 2D and 3D – Generalize Properties (6GM)

The student applies mathematical process standards to analyze geometric attributes in order to develop generalizations about their properties.

Standard 7 – Geometry and Measurement – Angles (7GM)

The student applies mathematical process standards to solve problems involving angles less than or equal to 180 degrees.

Standard 8 – Geometry and Measurement – Units of Measure (8GM)

The student applies mathematical process standards to select appropriate customary and metric units, strategies, and tools to solve problems involving measurement.

Standard 9 – Data Analysis – (9DA)

The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data

Note to Teachers: The Think Tank problems have been correlated to the Grade Level Standards in 4th Grade. Please refer to the TEKS and the grade level student expectations. This correlation is only a starting point in your instructional planning.