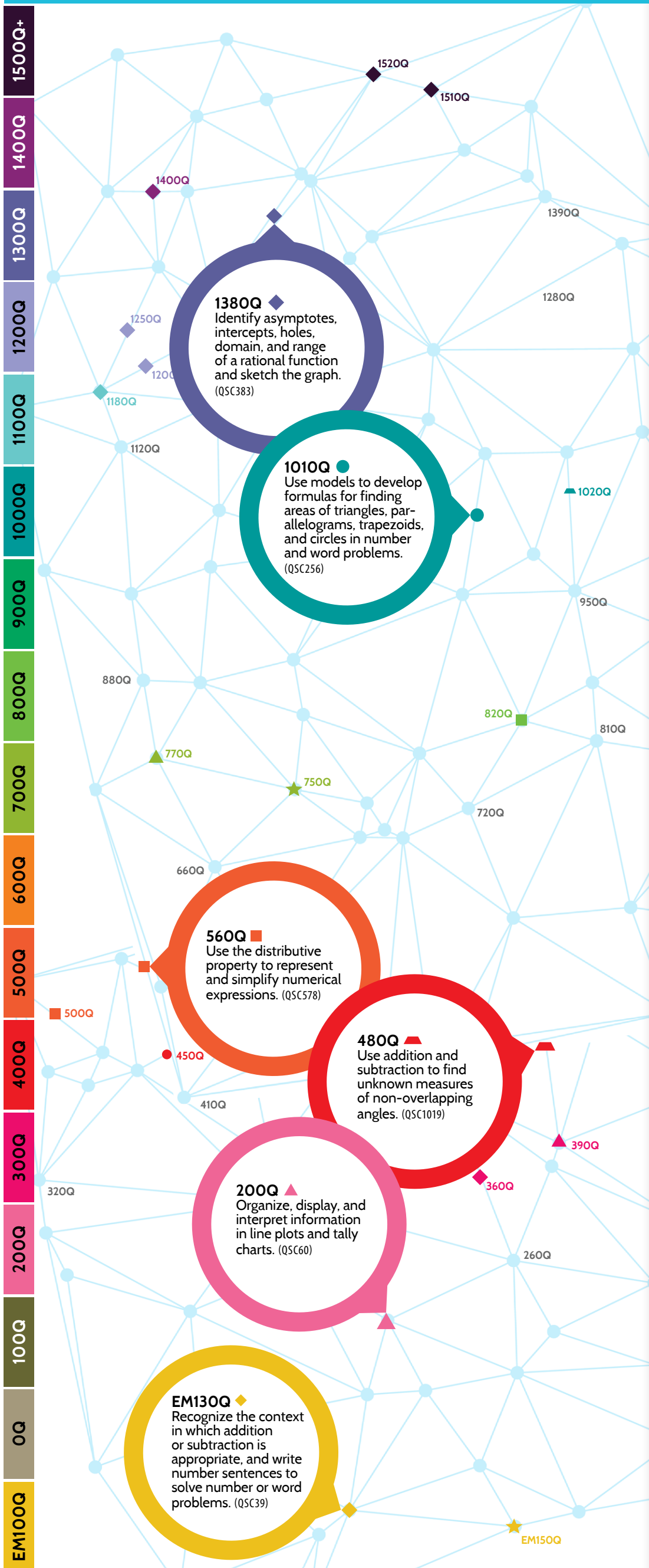




### Quantile Skills & Concepts (QSCs) Organized by Quantile<sup>®</sup> Measure

### Exemplars From Over 500 Quantile Skills & Concepts



#### Quantile Measure Sample Quantile Skills & Concepts

- 1520Q Identify continuous and discontinuous functions and locate points of discontinuity.
- 1510Q Graph tangent, cotangent, secant, and cosecant functions and identify the domain, range, period, and asymptotes of the function.
- 1400Q Use the definition of a hyperbola to identify characteristics, write an equation and graph the relation.
- 1380Q Identify asymptotes, intercepts, holes, domain, and range of a rational function and sketch the graph.
- 1250Q Identify the undefined values of rational algebraic expressions.
- 1200Q Identify and interpret zeros of a quadratic function using factoring in algebraic and word problems.
- 1180Q Use and interpret function notation in number and word problems; determine a value of the function given an element of the domain.
- 1020Q Define and identify complementary and supplementary angles.
- 1010Q Use models to develop formulas for finding areas of triangles, parallelograms, trapezoids, and circles in number and word problems.
- 820Q Rewrite or simplify algebraic expressions including the use of the commutative, associative, and distributive properties, and inverses and identities, in number and word problems.
- 770Q Organize, display, and interpret information in stem-and-leaf plots.
- 750Q Describe the effect of operations on size and order of numbers.
- 560Q Use the distributive property to represent and simplify numerical expressions.
- 530Q Estimate and compute products of whole numbers with multi-digit factors.
- 500Q Use order of operations including parentheses and other grouping symbols to simplify numerical expressions.
- 480Q Use addition and subtraction to find unknown measures of non-overlapping angles.
- 450Q Determine the area of rectangles, squares, and composite figures using nonstandard units, grids, and standard units in number and word problems.
- 390Q Organize, display, and interpret information in tables and graphs (frequency tables, pictographs, and line plots).
- 360Q Write addition and subtraction sentences that represent a number or word problem; solve.
- 200Q Organize, display, and interpret information in line plots and tally charts.
- EM130Q Recognize the context in which addition or subtraction is appropriate, and write number sentences to solve number or word problems.
- EM150Q Describe, compare and order objects using mathematical vocabulary.

#### GLOSSARY

**Emerging Mathematician (EM):** A code that comes before a Quantile measure below zero for material and student measures at early levels.

**Quantile Skill and Concept (QSC):** The description of a skill and its Quantile measure.

For more information and free resources, visit [Quantiles.com](http://Quantiles.com).

◆ ALGEBRA & ALGEBRAIC THINKING

★ NUMBER SENSE

■ NUMERICAL OPERATIONS

● MEASUREMENT

▲ GEOMETRY

▲ DATA ANALYSIS, STATISTICS & PROBABILITY