Mathletics US Common Core

Skill Quests



Grades 7 - 8

May, 2022



Mathletics US Common Core Skill Quests

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Grade 7

1 Ratios & Proportional Relationships

1.1 Analyze proportional relationships and use them to solve real-world and mathematical problems

| Outcome | Quests | Content |
|---|--------------------------------------|--|
| 1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. | Unit rates with fractions | Solving unit rate problems involving fractions |
| 2. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin. | Identify proportional relationships | Identifying proportional relationships |
| 3. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships. | Constant of proportionality | Identifying the constant of proportionality |
| 4. Represent proportional relationships by equations. | Represent proportional relationships | Representing proportional relationships: equations |
| 5. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate. | Graphs of proportional relationships | Interpreting graphs of proportional relationships |
| 6. Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error. | Ratio & percent problems | Solving multi-step ratio & percent problems |

2 The Number System

2.1 Apply and extend previous understandings of operations with fractions

| Outcome | Quests | Content |
|--|--|---|
| 1. Describe situations in which opposite quantities combine to make 0. | Opposites | Describing situations involving opposites |
| 2. Understand p + q as the number located a distance q from p, in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by | Add rational numbers | Opposites & absolute value Adding rational numbers Adding positive & negative fractions Adding positive & negative decimals |
| describing real-world contexts. 3. Understand subtraction of rational numbers as adding the additive inverse, p - q = p + (-q). Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts. | Subtract rational numbers | Subtracting rational numbers: adding the inverse Subtracting positive & negative fractions Subtracting positive & negative decimals Subtracting integers Subtracting rational numbers: absolute value |
| 4. Apply properties of operations as strategies to add and subtract rational numbers. | Rational numbers: addition properties | Add & subtract rational numbers: properties |
| 5. Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as (-1)(-1) = 1 and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts. | Multiply rational numbers | Multiplying rational numbers Multiplying positive & negative fractions Multiplying positive & negative decimals Multiplying integers Products of rational numbers: real-world contexts |
| 6. Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then -(p/q) = (-p)/q = p/(-q). Interpret quotients of rational | Divide integers | Dividing integers Quotients of rational numbers: real-world contexts |

| numbers by describing real-world contexts. | | |
|--|---|--|
| 7. Apply properties of operations as strategies to multiply and divide rational numbers. | Rational numbers: properties | Multiply & divide rational numbers: properties |
| 8. Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats. | Convert rational numbers to decimals | Use long division to convert rationals to decimals |
| 9. Solve real-world and mathematical problems involving the four operations with rational numbers. | Rational numbers problems: 4 operations | Rational numbers problems: 4 operations |

3 Expressions & Equations

3.1 Use properties of operations to generate equivalent expressions

| Outcome | Quests | Content |
|--------------------------------------|-----------------------|----------------------------------|
| 1. Apply properties of operations as | Linear expressions: | Simplify algebraic expressions: |
| strategies to add, subtract, factor, | properties | add & subtract |
| and expand linear expressions with | | Distributive property: algebraic |
| rational coefficients. | | expressions |
| | | Factoring algebraic |
| | | expressions |
| 2. Understand that rewriting an | Interpret expressions | Rearranging expressions to |
| expression in different forms in a | | interpret quantities |
| problem context can shed light on | | |
| the problem and how the quantities | | |
| in it are related. | | |

3.2 Solve real-life and mathematical problems using numerical and algebraic expressions and equations

| Outcome | Quests | Content |
|--|--------------------------------|--|
| 3. Solve multi-step real-life and mathematical problems posed with | Problems with rational numbers | Solving problems with rational numbers |
| positive and negative rational | | Converting terminating |
| numbers in any form (whole numbers, fractions, and decimals), | | decimals |
| using tools strategically. Apply | | |
| properties of operations to calculate with numbers in any form; convert | | |
| between forms as appropriate; and | | |
| assess the reasonableness of answers using mental computation | | |
| and estimation strategies. | | |
| 4. Solve word problems leading to equations of the form $px + q = r$ and | Solve 2-step equations | Solving 2-step equations: word problems |
| p(x + q) = r, where p, q, and r are specific rational numbers. Solve | | 2-step equations, positive integer coefficients |
| equations of these forms fluently. Compare an algebraic solution to | | 2-step equations, integer coefficients |
| an arithmetic solution, identifying the sequence of the operations | | 2-step equations, positive rational coefficients |
| used in each approach. | | 2-step equations, rational coefficients |

| | | 2-step equations, distributive property |
|--|--------------|---|
| 5. Solve word problems leading to | Solve 2-step | Creating & solving 2-step |
| inequalities of the form $px + q > r$ or | inequalities | inequalities |
| px + q < r, where p, q, and r are | | Representing inequalities |
| specific rational numbers. Graph | | Graphing the solution of an |
| the solution set of the inequality | | inequality |
| and interpret it in the context of the | | Solving 2-step inequalities |
| problem. | | |

4 Geometry

4.1 Draw construct, and describe geometrical figures and describe the relationships between them

| Outcome | Quests | Content |
|--------------------------------------|-----------------------|---------------------------------|
| 1. Solve problems involving scale | Scale drawings | Scale drawings |
| drawings of geometric figures, | | |
| including computing actual lengths | | |
| and areas from a scale drawing | | |
| and reproducing a scale drawing at | | |
| a different scale. | | T |
| 2. Draw (freehand, with ruler and | Construct triangles | Triangle Inequality Theorem |
| protractor, and with technology) | | Constructing triangles with |
| geometric shapes with given | | given conditions |
| conditions. Focus on constructing | | |
| triangles from three measures of | | |
| angles or sides, noticing when the | | |
| conditions determine a unique | | |
| triangle, more than one triangle, or | | |
| no triangle. | Cross sections of 2 D | Describing areas as tions of 2 |
| 3. Describe the two-dimensional | Cross sections of 3-D | Describing cross sections of 3- |
| figures that result from slicing | figures | D figures |
| three-dimensional figures, as in | | |
| plane sections of right rectangular | | |
| prisms and right rectangular | | |
| pyramids. | | |

4.2 Solve real-life and mathematical problems involving angle measure, area, surface area, and volume

| Outcome | Quests | Content |
|-------------------------------------|----------------------|--------------------------------|
| 4. Know the formulas for the area | Circles: area & | Finding the area of a circle |
| and circumference of a circle and | circumference | Introducing the parts of a |
| use them to solve problems; give an | | circle |
| informal derivation of the | | Finding the circumference of a |
| relationship between the | | circle |
| circumference and area of a circle. | | |
| 5. Use facts about supplementary, | Using angle facts to | Supplementary angles |
| complementary, vertical, and | solve problems | Complementary angles |
| adjacent angles in a multi-step | | Adjacent angles |
| problem to write and solve simple | | Vertical angles |
| equations for an unknown angle in | | |
| a figure. | | |

| 6. Solve real-world and | Area, volume & surface | Area: polygons |
|--------------------------------------|------------------------|-----------------------------|
| mathematical problems involving | area | Solving real-life problems: |
| area, volume and surface area of | | area of polygons |
| two- and three-dimensional objects | | Volume: right prisms |
| composed of triangles, | | Surface area: rectangular & |
| quadrilaterals, polygons, cubes, and | | triangular prisms |
| right prisms. | | |

5 Statistics & Probability

5.1 Use random sampling to draw inferences about a population

| Outcome | Quests | Content |
|---|------------------------------|---------------------------------|
| 1. Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences. | Understand sampling | Understanding sampling |
| 2. Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions. | Draw inferences from samples | Drawing inferences from samples |

5.2 Draw informal comparative inferences about two populations

| Outcome | Quests | Content |
|------------------------------------|------------------|------------------------------|
| 3. Informally assess the degree of | Compare data | Comparing data distributions |
| visual overlap of two numerical | distributions | |
| data distributions with similar | | |
| variabilities, measuring the | | |
| difference between the centers by | | |
| expressing it as a multiple of a | | |
| measure of variability. | | |
| 4. Use measures of center and | Draw comparative | Drawing comparative |
| measures of variability for | inferences | inferences |
| numerical data from random | | |
| samples to draw informal | | |
| comparative inferences about two | | |
| populations. | | |

5.3 Investigate chance processes and develop, use, and evaluate probability models

| Outcome | Quests | Content |
|--|---|--|
| 5. Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event. | Introduction to probability | Introducing probability |
| 6. Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability. | Probability of chance events | Probability of chance events: relative frequency |
| 7. Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events. | Determine the probability of events | Theoretical probability Predicting outcomes of chance experiments Finding the complement of an event |
| 8. Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process. | Observe frequencies in data | Finding the approximate probability Comparing observed frequency & expected frequency |
| 9. Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs. | Probability: compound events | Investigating mutually exclusive events Calculating probabilities of compound events |
| 10. Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event. | Sample spaces for compound events | Representing sample spaces & identifying outcomes |
| 11. Design and use a simulation to generate frequencies for compound events. | Independent & dependent compound events | Independent & dependent compound events |

Grade 8

1 The Number System

1.1 Know that there are numbers that are not rational, and approximate them by rational numbers

| Outcome | Quests | Content |
|--|------------------------|--------------------------------|
| 1. Know that numbers that are not | Rational & irrational | Describing properties of |
| rational are called irrational. | numbers | irrational numbers |
| Understand informally that every | | Classifying real numbers |
| number has a decimal expansion; | | Converting repeating decimals |
| for rational numbers show that the | | to rational numbers |
| decimal expansion repeats | | Repeating & terminating |
| eventually, and convert a decimal | | decimals as fractions |
| expansion which repeats eventually | | |
| into a rational number. | | |
| 2. Use rational approximations of | Approximate irrational | Comparing irrational numbers |
| irrational numbers to compare the | numbers | Locating irrational numbers on |
| size of irrational numbers, locate | | a number line |
| them approximately on a number | | Approximating the value of an |
| line diagram, and estimate the | | irrational number |
| value of expressions (e.g., π ^2). | | Finding square roots of non- |
| | | perfect squares |

2 Expressions & Equations

2.1 Work with radicals and integer exponents

| Outcome | Quests | Content |
|---|-----------------------|---------------------------------|
| 1. Know and apply the properties of | Properties of integer | Using exponent notation |
| integer exponents to generate | exponents | Product of powers, numerical |
| equivalent numerical expressions. | | base |
| | | Product of powers, algebraic |
| | | base |
| | | Quotient of powers, numerical |
| | | base |
| | | Quotient of powers, algebraic |
| | | base |
| | | Power of a power, numerical |
| | | base |
| | | Power of a power, algebraic |
| | | base |
| | | Zero exponents, numerical |
| | | base |
| | | Zero exponents, algebraic |
| | | base |
| | | Negative exponents, numerical |
| | | base |
| | | Negative exponents, algebraic |
| | | base |
| | | Simplifying expressions, |
| | | numerical base |
| | | Simplifying expressions, |
| | | algebraic base |
| 2. Use square root and cube root | Square & cube roots | Investigating square roots & |
| symbols to represent solutions to | | cube roots |
| equations of the form $x^2 = p$ and x^3 | | Squares & square roots |
| = p, where p is a positive rational | | Evaluating expressions with |
| number. Evaluate square roots of | | square & cube roots |
| small perfect squares and cube | | Square roots of fractions & |
| roots of small perfect cubes. Know | | decimals |
| that √2 is irrational. | | Cubes & cube roots |
| 3. Use numbers expressed in the | Write numbers in | Introducing scientific notation |
| form of a single digit times an | scientific notation | Converting scientific notation |
| integer power of 10 to estimate | | to standard form |
| very large or very small quantities, | | Converting standard form to |
| and to express how many times as | | scientific notation |
| much one is than the other. | | |
| 4. Perform operations with numbers | Calculations in | Calculations in scientific |
| expressed in scientific notation, | scientific notation | notation |
| including problems where both | | |

| decimal and scientific notation are | |
|--------------------------------------|--|
| used. Use scientific notation and | |
| choose units of appropriate size for | |
| measurements of very large or very | |
| small quantities (e.g., use | |
| millimeters per year for seafloor | |
| spreading). Interpret scientific | |
| notation that has been generated | |
| by technology | |

2.2 Understand the connections between proportional relationships, lines, and linear equations

| Outcome | Quests | Content |
|---------------------------------------|-----------------------|----------------------------------|
| 5. Graph proportional relationships, | Proportional | Graphing proportional |
| interpreting the unit rate as the | relationships | relationships |
| slope of the graph. Compare two | | Comparing proportional |
| different proportional relationships | | relationships |
| represented in different ways. | | |
| 6. Use similar triangles to explain | Understand slope & y- | Using similar triangles to |
| why the slope m is the same | intercept | understand slope |
| between any two distinct points on | | Writing equations of |
| a non-vertical line in the coordinate | | proportional relationships |
| plane; derive the equation y = mx | | Writing equations of |
| for a line through the origin and the | | nonproportional relationships |
| equation $y = mx + b$ for a line | | Identifying the slope in an |
| intercepting the vertical axis at b. | | equation or graph |
| | | Identifying the y-intercept on a |
| | | graph |
| | | Graphing equations in slope- |
| | | intercept form |
| | | Graphing equations not in |
| | | slope-intercept form |
| | | Finding the y-intercept |
| | | algebraically |

2.3 Analyze and solve linear equations and pairs of simultaneous linear equations

| Outcome | Quests | Content |
|--------------------------------------|--------------------------|--------------------------|
| 7. Give examples of linear | Solution types of linear | Solution types of linear |
| equations in one variable with one | equations | equations |
| solution, infinitely many solutions, | | |
| or no solutions. Show which of | | |
| these possibilities is the case by | | |
| successively transforming the given | | |

| equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a | | |
|---|--|---|
| and b are different numbers). | | |
| 8. Solve linear equations with rational number coefficients, | Solve linear equations | Solving 3-step linear equations |
| including equations whose solutions require expanding | | Solving linear equations, variables on both sides |
| expressions using the distributive property and collecting like terms. | | Solving linear equations, distributive property |
| | | Using substitution to check solutions |
| 9. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously. | Identify solutions, systems of equations | Identifying solutions, systems of equations |
| 10. Solve systems of two linear equations in two variables | Solve systems of equations | Solving systems of equations graphically |
| algebraically, and estimate solutions by graphing the | | Solving systems of equations using elimination |
| equations. Solve simple cases by inspection. | | Solving systems of equations using substitution |
| | | Checking the solution of a system of equations |
| 11. Solve real-world and mathematical problems leading to two linear equations in two variables. | Write & solve systems of equations | Writing & solving systems of equations |

3 Functions

3.1 Define, evaluate, and compare functions

| Outcome | Quests | Content |
|--|-----------------------------------|--|
| Understand that a function is a rule that assigns to each input | Identify functions | ldentifying functions |
| exactly one output. The graph of a | | |
| function is the set of ordered pairs | | |
| consisting of an input and the corresponding output. | | |
| 2. Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). | Compare functions | Comparing functions represented in different ways |
| 3. Interpret the equation $y = mx + b$ as defining a linear function, whose | Interpret y = mx + b as linear | Represent linear relationships in different forms |
| graph is a straight line; give examples of functions that are not | | Equations of linear & non- linear relationships |
| linear. | | illieur reiuuorisilips |

3.2 Use functions to model relationships between quantities

| Outcome | Quests | Content |
|--|--------------------------------|--------------------------------|
| 4. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values. | Rate of change & initial value | Rate of change & initial value |
| 5. Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a | Distance-time graphs | Distance-time graphs |

| function that has been described | |
|----------------------------------|--|
| verbally. | |

4 Geometry

4.1 Understand congruence and similarity using physical models, transparencies, or geometry software

| Outcome | Quests | Content |
|--|---------------------------------------|---|
| 1. Verify experimentally the properties of rotations, reflections, and translations. | Introduction to rigid transformations | Translating points on the coordinate plane Reflecting points across the x-or y-axis Rotating points about the origin |
| 1. Lines are taken to lines, and line segments to line segments of the same length. | Preserved properties: length | Preserved properties: length |
| 2. Angles are taken to angles of the same measure. | Preserved properties: angles | Preserved properties: angles |
| 3. Parallel lines are taken to parallel lines. | Preserved properties: parallel lines | Preserved properties: parallel lines |
| 4. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them. | Congruency: rigid transformations | Congruency: rigid transformations |
| 5. Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates. | Transformations, coordinates | Dilations, coordinates Translations, coordinates Rotations, coordinates Reflections, coordinates Sequences of transformations |
| 6. Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them. | Similarity: transformations | Introducing similarity Similarity: transformations |
| 7. Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when | Triangles & angle relationships | Angle sum theorem Exterior angle theorem Angle relationships: parallel lines, transversal |

| parallel lines are cut by a | Using scale to analyze similar |
|--|--------------------------------|
| transversal, and the angle-angle | triangles |
| criterion for similarity of triangles. | Identifying similar triangles |

4.2 Understand and apply the Pythagorean Theorem

| Outcome | Quests | Content |
|--------------------------------------|------------------------|------------------------------|
| 6. Explain a proof of the | The Pythagorean | Identifying the hypotenuse, |
| Pythagorean Theorem and its | Theorem & its converse | right triangles |
| converse. | | Identifying right triangles, |
| | | Pythagorean Theorem |
| | | Pythagorean triples |
| 7. Apply the Pythagorean Theorem | Apply the Pythagorean | Pythagorean Theorem: |
| to determine unknown side lengths | Theorem | missing short side |
| in right triangles in real-world and | | Pythagorean Theorem: |
| mathematical problems in two and | | missing hypotenuse |
| three dimensions. | | Pythagorean Theorem: |
| | | missing side |
| | | Pythagorean Theorem in 2-D |
| | | & 3-D |
| 8. Apply the Pythagorean Theorem | Distance between two | Finding the distance between |
| to find the distance between two | points | two points |
| points in a coordinate system. | | |

4.3 Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres

| Outcome | Quests | Content |
|-------------------------------------|---------------------|-------------------|
| 9. Know the formulas for the | Volume: cones, | Volume: cones |
| volumes of cones, cylinders, and | cylinders & spheres | Volume: cylinders |
| spheres and use them to solve real- | | Volume: spheres |
| world and mathematical problems. | | |

5 Statistics & Probability

5.1 Investigate patterns of association in bivariate data

| Outcome | Quests | Content |
|--|--------------------------------|--|
| 1. Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association. | Use & interpret scatter plots | Using & interpreting scatter plots |
| 2. Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line. | Estimate the line of best fit | Estimating the line of best fit |
| 3. Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept. | Interpret the line of best fit | Interpreting the line of best fit |
| 4. Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. | Two-way tables | Constructing & interpreting two-way tables |



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