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| Domain | Score | Standard | OLIS | Context |


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| Geometry | 16-19 | G 304. Locate points in the first quadrant | Ms | Ramps |
| Geometry | 13-15 | G 201. Estimate the length of a line segment based on other lengths in a geometric figure | ? | Working With Triangles |
| Geometry | 13-15 | G 202. Calculate the length of a line segment based on the lengths of other line segments that go in the same direction (e.g., overlapping line segments and parallel sides of polygons with only right angles) | MS | Working With Triangles |
| Geometry | 13-15 | G 203. Perform common conversions of money and of length, weight, mass, and time within a measurement system (e.g., dollars to dimes, inches to feet, and hours to minutes) | MS | Farm Co-Op Swap Meet |
| Geometry | 16-19 | G 301. Exhibit some knowledge of the angles associated with parallel lines | MS | Mini-golf Design |
| Geometry | 16-19 | G 302. Compute the perimeter of polygons when all side lengths are given | MS | Remodeling the Classroom |
| Geometry | 16-19 | G 303. Compute the area of rectangles when whole number dimensions are given | MS | Remodeling the Classroom |
| Geometry | 20-23 | G 401. Use properties of parallel lines to find the measure of an angle | G | Mini-golf Design |
| Geometry | 20-23 | G 402. Exhibit knowledge of basic angle properties and special sums of angle measures (e.g., $90^{\circ}, 180^{\circ}$, and $360^{\circ}$ ) | G | Design Logo |
| Geometry | 20-23 | G 403. Compute the area and perimeter of triangles and rectangles in simple problems | MS | Remodeling the Classroom |
| Geometry | 20-23 | G 404. Find the length of the hypotenuse of a right triangle when only very simple computation is involved (e.g., $3-4-5$ and $6-8-10$ triangles) | MS | Working With Triangles |
| Geometry | 20-23 | G 405. Use geometric formulas when all necessary information is given | MS | Remodeling the Classroom |
| Geometry | 20-23 | G 406. Locate points in the coordinate plane | MS | Ramps |
| Geometry | 20-23 | G 407. Translate points up, down, left, and right in the coordinate plane | MS | Design Logo |
| Geometry | 24-27 | G 501. Use several angle properties to find an unknown angle measure | G | Mini-golf Design |
| Geometry | 24-27 | G 502. Count the number of lines of symmetry of a geometric figure | G | Design Logo |
| Geometry | 24-27 | G 503. Use symmetry of isosceles triangles to find unknown side lengths or angle measures | G | Working With Triangles |
| Geometry | 24-27 | G 504. Recognize that real-world measurements are typically imprecise and that an appropriate level of precision is related to the measuring device and procedure | MP. 6 | Ramps |
| Geometry | 24-27 | G 504. Recognize that real-world measurements are typically imprecise and that an appropriate level of precision is related to the measuring device and procedure | MP. 6 | Remodeling the Classroom |
| Geometry | 24-27 | G 505. Compute the perimeter of simple composite geometric figures with unknown side lengths | MS | Design Logo |
| Geometry | 24-27 | G 505. Compute the perimeter of simple composite geometric figures with unknown side lengths | MS | Remodeling the Classroom |
| Geometry | 24-27 | G 506. Compute the area of triangles and rectangles when one or more additional simple steps are required | MS | Design Logo |
| Geometry | 24-27 | G 506. Compute the area of triangles and rectangles when one or more additional simple steps are required | MS | Remodeling the Classroom |
| Geometry | 24-27 | G 507. Compute the area and circumference of circles after identifying necessary information | MS | Design Logo |
| Geometry | 24-27 | G 508. Given the length of two sides of a right triangle, find the third when the lengths are Pythagorean triples | MS | Remodeling the Classroom |
| Geometry | 24-27 | G 508. Given the length of two sides of a right triangle, find the third when the lengths are Pyythagorean triples | MS | Working With Triangles |
| Geometry | 24-27 | G 509. Express the sine, cosine, and tangent of an angle in a right triangle as a ratio of given side lengths | G | Unraveling the Unit Circle |
| Geometry | 24-27 | G 510. Determine the slope of a line from points or a graph | MS | Ramps, Unraveling the Unit Circle |
| Geometry | 24-27 | G 511. Find the midpoint of a line segment | G | Remodeling the Classroom |
| Geometry | 24-27 | G 512. Find the coordinates of a point rotated $180^{\circ}$ around a given center point | G | Design Logo |
| Geometry | 28-32 | G 601. Use relationships involving area, perimeter, and volume of geometric figures to compute another measure (e.g., surface area for a cube of a given volume and simple geometric probability) | G | Carnival Games |
| Geometry | 28-32 | G 602. Use the Pythagorean theorem | MS/G | Working With Triangles |
| Geometry | 28-32 | G 603. Apply properties of $30^{\circ}-60^{\circ}-90^{\circ}, 45^{\circ}-45^{\circ}-90^{\circ}$, similar, and congruent triangles | G | Unraveling the Unit Circle |
| Geometry | 28-32 | G 604. Apply basic trigonometric ratios to solve right-triangle problems | G | Unraveling the Unit Circle |
| Geometry | 28-32 | G 605. Use the distance formula | G | Working With Triangles |
| Geometry | 28-32 | G 600. Use properties of parallel and perpendicular lines to determine an equation of a line or coordinates of a point | G |  |
| Geometry | 28-32 | G 607. Find the coordinates of a point reflected across a vertical or horizontal line or across $\mathrm{y}=\mathrm{x}$ | G |  |
| Geometry | 28-32 | G 608. Find the coordinates of a point rotated $90^{\circ}$ about the origin | MS |  |
| Geometry | 28-32 | G 609. Recognize special characteristics of parabolas and circles (e.g., the vertex of a parabola and the center or radius of a circle) | ? | Catapult Project |
| Geometry | 28-32 | G 609. Recognize special characteristics of parabolas and circles (e.g., the vertex of a parabola and the center or radius of a circle) | ? | Design Logo |
| Geometry | 33-36 | G 701. Use relationships among angles, arcs, and distances in a circle | G | Design Logos |
| Geometry | 33-36 | G 702. Compute the area of composite geometric figures when planning and/or visualization is required | G | Remodeling the Classroom |
| Geometry | 33-36 | G 703. Use scale factors to determine the magnitude of a size change | G | Theme 0: D4 Three-Act Task Rubber Duck |
| Geometry | 33-36 | G 704. Analyze and draw conclusions based on a set of conditions | G |  |
| Geometry | 33-36 | G 705. Solve multiste geometry problems that involve integrating concepts, planning, and/or visualization | G | Mini-golf Design |



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| Number and Quantity | 16-19 | N 302. Identify a digit's place value | MS | Number Talks |  |
| Number and Quantity | 13-15 | N 201. Perform one-operation computation with whole numbers and decimals | MS | Theme 0 |  |
| Number and Quantity | 13-15 | N 202. Recognize equivalent fractions and fractions in lowest terms | MS | Theme 0 |  |
| Number and Quantity | 13-15 | N 203. Locate positive rational numbers (expressed as whole numbers, fractions, decimals, and mixed numbers) on the number line | MS | Theme 0 |  |
| Number and Quantity | 16-19 | N 301. Recognize one-digit factors of a number | MS | Number Talks |  |
| Number and Quantity | 16-19 | N 303. Locate rational numbers on the number line | Ms | Theme 0 |  |
| Number and Quantity | 20-23 | N 401. Exhibit knowledge of elementary number concepts such as rounding, the ordering of decimals, pattern identification, primes, and greatest common factor | MS | Number Talks |  |
| Number and Quantity | 20-23 | N 402. Write positive powers of 10 by using exponents | MS | Theme 0: D9 Communication, Reasoning and Precision |  |
| Number and Quantity | 20-23 | N 403 . Compreend the concept of length on the number line, and find the distance between two points | MS | Ramps |  |
| Number and Quantity | 20-23 | N 404 . Understand absolute value in terms of distance | Ms | Ramps |  |
| Number and Quantity | 20-23 | N 405 . Find the distance in the coordinate plane between two points with the same $x$-coordinate or $y$-coordinate | MS |  |  |
| Number and Quantity | 20-23 | N 406 . Add two matrices that have whole number entries | ? |  |  |
| Number and Quantity | 24-27 | N 501. Order fractions | MS | Theme 0: D2 Collaboration |  |
| Number and Quantity | 24-27 | N 502. Find and use the least common multiple | Ms | Number Talks |  |
| Number and Quantity | 24-27 | N 503. Work with numerical factors | MS | Number Talks |  |
| Number and Quantity | 24-27 | N 504. Exhibit some knowledge of the complex numbers | A2 |  |  |
| Number and Quantity | 28-32 | N 601. Apply number properties involving prime factorization | ? | Theme 0: D6 Mathematical Mindset: Making Mistakes |  |
| Number and Quantity | 28-32 | N 601. Apply number properties involving prime factorization | ? | Theme 0: D8 Overview of the Mathematical <br> Practices \& Number Talks |  |
| Number and Quantity | 28-32 | N 602. Apply number properries involving even/odd numbers and factors/multiples | MS | Theme 0: D8 Overview of the Mathematical <br> Practices \& Number Talks |  |
| Number and Quantity | 28-32 | N 603. Apply number properties involving positive/negative numbers | MS | Theme 0: D8 Overview of the Mathematical <br> Practices \& Number Talks |  |
| Number and Quantity | 28-32 | N 604. Apply the facts that $\pi$ is irrational and that the square root of an integer is rational only if that integer is a perfect square | A1/G |  |  |
| Number and Quantity | 28-32 | N 605. Apply properties of rational exponents | A2 |  |  |
| Number and Quantity | 28-32 | N 606. Multiply two complex numbers | A2 |  |  |
| Number and Quantity | 28-32 | N 607. Use relations involving addition, subtraction, and scalar multipication of vectors and of matrices | ? |  |  |
| Number and Quantity | 33-36 | N 701. Analyze and draw conclusions based on number concepts | ? |  |  |
| Number and Quantity | 33-36 | N 702. Apply properties of rational numbers and the rational number system | A1 |  |  |
| Number and Quantity | 33-36 | N 703 . Apply properties of real numbers and the real number system, including properties of irrational numbers | A2 |  |  |
| Number and Quantity | 33-36 | N 704. Apply properities of complex numbers and the complex number system | A2 |  |  |
| Number and Quantity | 33-36 | N 705. Multiply matrices | $?$ |  |  |
| Number and Quantity | 33-36 | N 706. Apply properties of matrices and properties of matrices as a number system | ? |  |  |
| Stats and Prob | 13-15 | S 201. Calculate the average of a list of positive whole numbers | MS | Planning a Road Trip |  |
| Stats and Prob | 13-15 | S 202. Extract one relevant number from a basic table or chart, and use it in a single computation | MS | Remodeling the Classroom |  |
| Stats and Prob | 16-19 | S 301. Calculate the average of a list of numbers | MS | Planning a Road Trip |  |
| Stats and Prob | 16-19 | S 302. Calculate the average given the number of data values and the sum of the data values | MS | Planning a Road Trip |  |
| Stats and Prob | 16-19 | S 303. Read basic tables and charts | Ms | Which Amusement Park? |  |
| Stats and Prob | 16-19 | S 304. Extract relevant data from a basic table or chart and use the data in a computation | MS | Which Amusement Park? |  |
| Stats and Prob | 16-19 | S 305. Use the relationship between the probability of an event and the probability of its complement | MS |  |  |
| Stats and Prob | 20-23 | S 401. Calculate the missing data value given the average and all data values but one | MS |  |  |
| Stats and Prob | 20-23 | S 402. Translate from one representation of data to another (e.g., a bar graph to a circle graph) | Ms | Road Trip |  |
| Stats and Prob | 20-23 | S 402. Translate from one representation of data to another (e.g., a bar graph to a circle graph) | MS | Finging Frogs |  |
| Stats and Prob | 20-23 | S 403. Determine the probability of a simple event | MS | Taste Test Challenge |  |


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| Stats and Prob | 20-23 | S 404. Describe events as combinations of other events e.g., using and, or, and not) | G | Thinking About False Positives |  |
| Stats and Prob | 20-23 | S 405. Exhibit knowledge of simple counting techniques | MS |  |  |
| Stats and Prob | 24-27 | S 501. Calculate the average given the frequency counts of all the data values | MS | Flinging Frogs |  |
| Stats and Prob | 24-27 | S 502. Manipulate data from tables and charts | ? | Theme: Statistics |  |
| Stats and Prob | 24-27 | S 503. Compute straightorward probabilities for common situations | Ms | Theme: Probability |  |
| Stats and Prob | 24-27 | S 504. Use Venn diagrams in counting | G | Hopping Through Optimization |  |
| Stats and Prob | 24-27 | S 504. Use Venn diagrams in counting | G | Planning a Road Trip |  |
| Stats and Prob | 24-27 | S 505 . Recognize that when data summaries are reported in the real world, results are often rounded and must be interpeted as having appropriate precision | MP. 6 | Theme: Probability |  |
| Stats and Prob | 24-27 | S 505. Recognize that when data summaries are reported in the real world, results are often rounded and must be interpreted as having appropriate precision | MP. 6 | Theme: Statistics |  |
| Stats and Prob | 24-27 | S 506. Recognize that when a statistical model is used, model values typically differ from actual values | ? | Theme: Probability |  |
| Stats and Prob | 24-27 | S 506 . Recognize that when a statistical model is used, model values typically differ from actual values | ? | Theme: Statistics |  |
| Stats and Prob | 28-32 | S 601. Calculate or use a weighted average | A1 | Carrival Games |  |
| Stats and Prob | 28-32 | S 602. Interpret and use information from tables and charts, including two-way frequency tables | G | Thinking About False Positives |  |
| Stats and Prob | 28-32 | S 603. Apply counting techniques | ? |  |  |
| Stats and Prob | 28-32 | S 604. Compute a probability when the event and/or sample space are not given or obvious | G | Random Babies |  |
| Stats and Prob | 28-32 | S 605. Recognize the concepts of conditional and joint probability expressed in real-world contexts | G | Thinking About False Positives |  |
| Stats and Prob | 28-32 | S 606. Recognize the concept of independence expressed in real-world contexts | G | Taste Test Challenge |  |
| Stats and Prob | 33-36 | S 701. Distinguish between mean, median, and mode for a list of numbers | MS | Flinging Frogs |  |
| Stats and Prob | 33-36 | S 702. Analyze and draw conclusions based on information from tables and charts, including two-way frequency tables | G | Thinking About False Positives |  |
| Stats and Prob | 33-36 | S 703. Understand the role of randomization in surveys, experiments, and observational studies | A2 | Taste Test Challenge |  |
| Stats and Prob | 33-36 | S 704. Exhibit knowledge of conditional and joint probability | G | Random Babies |  |
| Stats and Prob | 33-36 | S 705. Recognize that part of the power of statistical modeling comes from looking at regularity in the differences between actual values and model values | ? | Public Policy |  |

