

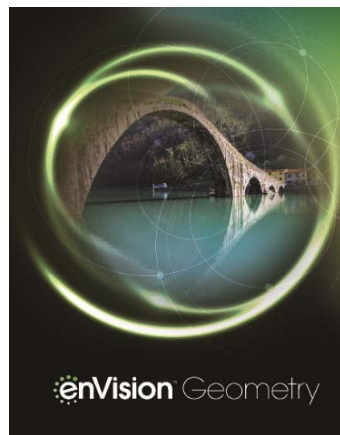
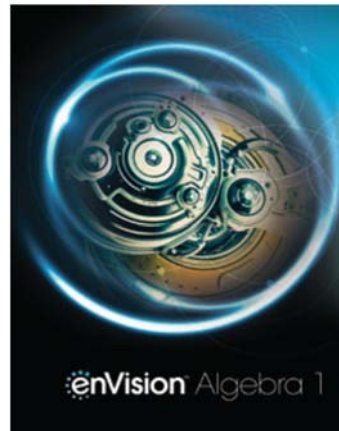
## A Correlation of

**enVisionmath<sup>2.0</sup>**  
SCOTT FORESMAN • ADDISON WESLEY

**Grade 8, ©2017**

**enVision<sup>TM</sup> A|G|A**  
Algebra 1 • Geometry • Algebra 2

**High School, ©2018**



To the

**ACT College & Career Readiness Standards  
High School**

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ACT College & Career Readiness Standards	enVisionmath2.0 Grade 8 ©2017 enVision A G A, ©2018
<b>NUMBER AND QUANTITY (N)</b>	
<b>SCORE RANGE 13–15</b>	
<p><b>N 201.</b> Perform one-operation computation with whole numbers and decimals</p>	<p><b>Grade 8</b>  <b>SE:</b> 7-12, 13-18, 39-44, 85-90, 91-96, 129-134  <b>TE:</b> 7A-12B, 13A-18B, 39A-44B, 85A-90B, 91A-96B, 129A-134B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 11-17, 30-35, 43-49  <b>TE:</b> 5A-10B, 11A-17B, 30A-35B, 43A-49B</p> <p><b>Geometry</b>  <b>SE:</b> 5-13, 14-21  <b>TE:</b> 5A-13B, 14A-21B</p>
<p><b>N 202.</b> Recognize equivalent fractions and fractions in lowest terms</p>	<p><b>Grade 8</b>  <b>SE:</b> 7-12, 19-24  <b>TE:</b> 7A-12B, 19A-24B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10  <b>TE:</b> 5A-10B</p>
<p><b>N 203.</b> Locate positive rational numbers (expressed as whole numbers, fractions, decimals, and mixed numbers) on the number line</p>	<p><b>Grade 8</b>  <b>SE:</b> 7-12, 19-24  <b>TE:</b> 7A-12B, 19A-24B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 37-42, 43-49  <b>TE:</b> 5A-10B, 37A-42B, 43A-49B</p>
<b>SCORE RANGE 16–19</b>	
<p><b>N 301.</b> Recognize one-digit factors of a number</p>	<p><b>Grade 8</b>  <b>SE:</b> 25-30, 31-36  <b>TE:</b> 25A-30B, 31A-36B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 281-286, 301-306  <b>TE:</b> 5A-10B, 281A-286B, 301A-306B</p> <p><b>Algebra 2</b>  <b>SE:</b> 139-145, 154-162  <b>TE:</b> 139A-145B, 154A-162B</p>

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<b>N 302.</b> Identify a digit's place value	<p><b>Grade 8</b>  <b>SE:</b> 7-12, 19-24  <b>TE:</b> 7A-12B, 19A-24B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10  <b>TE:</b> 5A-10B</p>
<b>N 303.</b> Locate rational numbers on the number line	<p><b>Grade 8</b>  <b>SE:</b> 19-24  <b>TE:</b> 19A-24B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 37-42, 43-49  <b>TE:</b> 5A-10B, 37A-42B, 43A-49B</p>
<i>Note: A matrix as a representation of data is treated here as a basic table.</i>	
<b>SCORE RANGE 20–23</b>	
<b>N 401.</b> Exhibit knowledge of elementary number concepts such as rounding, the ordering of decimals, pattern identification, primes, and greatest common factor	<p><b>Grade 8</b>  <b>SE:</b> 7-12, 13-18, 19-24, 25-30  <b>TE:</b> 7A-12B, 13A-18B, 19A-24B, 25A-30B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 11-17, 30-35, 37-42, 43-49, 110-117, 281-286  <b>TE:</b> 5A-10B, 11A-17B, 30A-35B, 37A-42B, 43A-49B, 110A-117B, 281A-286B</p> <p><b>Algebra 2</b>  <b>SE:</b> 31-39, 95-101  <b>TE:</b> 31A-39B, 95A-101B</p>
<b>N 402.</b> Write positive powers of 10 by using exponents	<p><b>Grade 8</b>  <b>SE:</b> 51-56  <b>TE:</b> 51A-56B</p> <p><b>Algebra 1</b>  <b>SE:</b> 217-223, 231-238  <b>TE:</b> 217A-223B, 231A-238B</p>

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<b>N 403.</b> Comprehend the concept of length on the number line, and find the distance between two points	<p><b>Grade 8</b>  <b>SE:</b> 19-24, 401-406  <b>TE:</b> 19A-24B, 401A-406B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 37-42, 43-49  <b>TE:</b> 5A-10B, 37A-42B, 43A-49B</p> <p><b>Geometry</b>  <b>SE:</b> 22-27  <b>TE:</b> 22A-27B</p>
<b>N 404.</b> Understand absolute value in terms of distance	<p><b>Algebra 1</b>  <b>SE:</b> 43-49, 183-189  <b>TE:</b> 43A-49B, 183A-189B</p> <p><b>Algebra 2</b>  <b>SE:</b> 23-30  <b>TE:</b> 23A-30B</p>
<b>N 405.</b> Find the distance in the coordinate plane between two points with the same x-coordinate or y-coordinate	<p><b>Grade 8</b>  <b>SE:</b> 401-406  <b>TE:</b> 401A-406B</p> <p><b>Geometry</b>  <b>SE:</b> 22-27  <b>TE:</b> 22A-27B</p>
<b>N 406.</b> Add two matrices that have whole number entries	<p><b>Algebra 2</b>  <b>SE:</b> 503-510, 511-517  <b>TE:</b> 503A-510B, 511A-517B</p>
<b>SCORE RANGE 24–27</b>	
<b>N 501.</b> Order fractions	<p><b>Grade 8</b>  <b>SE:</b> 19-24  <b>TE:</b> 19A-24B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10  <b>TE:</b> 5A-10B</p>
<b>N 502.</b> Find and use the least common multiple	<p><b>Algebra 2</b>  <b>SE:</b> 217-223  <b>TE:</b> 217A-223B</p>

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<b>N 503.</b> Work with numerical factors	<p><b>Grade 8</b>  <b>SE:</b> 25-30, 85-90  <b>TE:</b> 25A-30B, 85A-90B</p> <p><b>Algebra 1</b>  <b>SE:</b> 281-286  <b>TE:</b> 281A-286B</p> <p><b>Algebra 2</b>  <b>SE:</b> 154-162  <b>TE:</b> 154A-162B</p>
<b>N 504.</b> Exhibit some knowledge of the complex numbers	<p><b>Algebra 2</b>  <b>SE:</b> 95-101, 110-116, 171-178, 441-448, 449-456  <b>TE:</b> 95A-101B, 110A-116B, 171A-178B, 441A-448B, 449A-456B</p>
<b>N 505.</b> Add and subtract matrices that have integer entries	<p><b>Algebra 2</b>  <b>SE:</b> 503-510, 511-517  <b>TE:</b> 503A-510B, 511A-517B</p>
Score Range <b>28-32</b>	
<b>N 601.</b> Apply number properties involving prime factorization	<p><b>Grade 8</b>  <b>SE:</b> 25-30  <b>TE:</b> 25A-30B</p> <p><b>Algebra 1</b>  <b>SE:</b> 281-286  <b>TE:</b> 256C, 281A-286B</p>
<b>N 602.</b> Apply number properties involving even/odd numbers and factors/multiples	<p><b>Grade 8</b>  <b>SE:</b> 19-24, 25-30, 31-36, 91-96, 333-338  <b>TE:</b> 19A-24B, 25A-30B, 31A-36B, 91A-96B, 333A-338B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 281-286, 287-293, 301-306  <b>TE:</b> 5A-10B, 281A-286B, 287A-293B, 301A-306B</p> <p><b>Algebra 2</b>  <b>SE:</b> 179-186  <b>TE:</b> 179A-186B</p>

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<b>N 603.</b> Apply number properties involving positive/negative numbers	<p><b>Grade 8</b>  <b>SE:</b> 19-24, 85-90, 297-302, 303-308, 309-314  <b>TE:</b> 19A-24B, 85A-90B, 297A-302B, 303A-308B, 309A-314B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 43-49, 183-189  <b>TE:</b> 5A-10B, 43A-49B, 183A-189B</p> <p><b>Geometry</b>  <b>SE:</b> 107-112, 113-120, 121-128  <b>TE:</b> 107A-112B, 113A-120B, 121A-128B</p> <p><b>Algebra 2</b>  <b>SE:</b> 247-254  <b>TE:</b> 247A-254B</p>
<b>N 604.</b> 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	<p><b>Grade 8</b>  <b>SE:</b> 13-18, 25-30, 31-36  <b>TE:</b> 13A-18B, 25A-30B, 31A-36B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 301-306  <b>TE:</b> 5A-10B, 301A-306B</p> <p><b>Algebra 2</b>  <b>SE:</b> 95-101, 103-109  <b>TE:</b> 95A-101B, 103A-109B</p>
<b>N 605.</b> Apply properties of rational exponents	<p><b>Grade 8</b>  <b>SE:</b> 39-44, 45-50, 51-56  <b>TE:</b> 39A-44B, 45A-50B, 51A-56B</p> <p><b>Algebra 1</b>  <b>SE:</b> 217-223, 224-230, 231-238  <b>TE:</b> 217A-223B, 224A-230B, 231A-238B</p> <p><b>Algebra 2</b>  <b>SE:</b> 247-254  <b>TE:</b> 247A-254B</p>
<b>N 606.</b> Multiply two complex numbers	<p><b>Algebra 2</b>  <b>SE:</b> 441-448, 449-456  <b>TE:</b> 441A-448B, 449A-456B</p>

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<b>N 607.</b> Use relations involving addition, subtraction, and scalar multiplication of vectors and of matrices	<b>Algebra 2</b> <b>SE:</b> 503-510, 511-517, 518-527, 528-536 <b>TE:</b> 503A-510B, 511A-517B, 518A-527B, 528A-536B
Score Range <b>33-36</b>	
<b>N 701.</b> Analyze and draw conclusions based on number concepts	<p><b>Grade 8</b> <b>SE:</b> 7-12, 25-30, 31-36, 67-72, 117-122, 159-164, 297-302, 309-314 <b>TE:</b> 7A-12B, 25A-30B, 31A-36B, 67A-72B, 117A-122B, 159A-164B, 297A-302B, 309A-314B</p> <p><b>Algebra 1</b> <b>SE:</b> 18-23, 24-29, 231-238, 389-395 <b>TE:</b> 18A-23B, 24A-29B, 231A-238B, 389A-395B</p> <p><b>Geometry</b> <b>SE:</b> 5-13, 14-21, 28-34 <b>TE:</b> 5A-13B, 14A-21B, 28A-34B</p> <p><b>Algebra 2</b> <b>SE:</b> 551-557 <b>TE:</b> 551A-557B</p>
<b>N 702.</b> Apply properties of rational numbers and the rational number system	<p><b>Grade 8</b> <b>SE:</b> 7-12, 19-24 <b>TE:</b> 7A-12B, 19A-24B</p> <p><b>Algebra 1</b> <b>SE:</b> 5-10 <b>TE:</b> 5A-10B</p> <p><b>Algebra 2</b> <b>SE:</b> 239-246 <b>TE:</b> 239A-246B</p>
<b>N 703.</b> Apply properties of real numbers and the real number system, including properties of irrational numbers	<p><b>Grade 8</b> <b>SE:</b> 13-18, 19-24, 25-30, 31-36 <b>TE:</b> 13A-18B, 19A-24B, 25A-30B, 31A-36B</p> <p><b>Algebra 1</b> <b>SE:</b> 5-10 <b>TE:</b> 5A-10B</p>



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(Continued) <b>N 703.</b> Apply properties of real numbers and the real number system, including properties of irrational numbers	<b>Algebra 2</b> <b>SE:</b> 247-254 <b>TE:</b> 247A-254B
<b>N 704.</b> Apply properties of complex numbers and the complex number system	<b>Algebra 2</b> <b>SE:</b> 95-101, 103-109, 110-116, 171-178, 441-448, 449-456 <b>TE:</b> 95A-101B, 103A-109B, 110A-116B, 171A-178B, 441A-448B, 449A-456B
<b>N 705.</b> Multiply matrices	<b>Algebra 2</b> <b>SE:</b> 503-510, 511-517, 518-527, 528-536 <b>TE:</b> 503A-510B, 511A-517B, 518A-527B, 528A-536B
<b>N 706.</b> Apply properties of matrices and properties of matrices as a number system	<b>Algebra 2</b> <b>SE:</b> 503-510, 511-517, 518-527, 528-536 <b>TE:</b> 503A-510B, 511A-517B, 518A-527B, 528A-536B
<b>ALGEBRA (A) and FUNCTIONS (F)</b>	
<b>Score Range 13–15</b>	
<b>AF 201.</b> Solve problems in one or two steps using whole numbers and using decimals in the context of money	<b>Grade 8</b> <b>SE:</b> 7-12, 85-90, 91-96, 97-102 <b>TE:</b> 7A-12B, 85A-90B, 91A-96B, 97A-102B  <b>Algebra 1</b> <b>SE:</b> 11-17, 18-23, 30-35, 43-49, 63-68, 171-176 <b>TE:</b> 11A-17B, 18A-23B, 30A-35B, 43A-49B, 63A-68B, 171A-176B
<b>A 201.</b> Exhibit knowledge of basic expressions (e.g., identify an expression for a total as $b + g$ )	<b>Grade 8</b> <b>SE:</b> 85-90, 91-96, 97-102, 103-110 <b>TE:</b> 85A-90B, 91A-96B, 97A-102B, 103A-110B  <b>Algebra 1</b> <b>SE:</b> 231-238, 281-286, 287-293, 295-300, 301-306, 370-375 <b>TE:</b> 231A-238B, 281A-286B, 287A-293B, 295A-300B, 301A-306B, 370A-375B

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(Continued) <b>A 201.</b> Exhibit knowledge of basic expressions (e.g., identify an expression for a total as $b + g$ )	<b>Algebra 2</b> <b>SE:</b> 88-94, 146-153, 154-162, 210-216, 217-223, 247-254, 305-312, 433-440 <b>TE:</b> 88A-94B, 146A-153B, 154A-162B, 210A-216B, 217A-223B, 247A-254B, 305A-312B, 433A-440B
<b>A 202.</b> Solve equations in the form $x + a = b$ , where $a$ and $b$ are whole numbers or decimals	<b>Grade 8</b> <b>SE:</b> 85-90, 91-96, 103-110 <b>TE:</b> 85A-90B, 91A-96B, 103A-110B  <b>Algebra 1</b> <b>SE:</b> 11-17, 18-23, 24-29, 43-49, 357-362, 376-381, 388-395 <b>TE:</b> 11A-17B, 18A-23B, 24A-29B, 43A-49B, 357A-362B, 376A-381B, 388A-395B  <b>Algebra 2</b> <b>SE:</b> 5-12, 40-46, 47-54, 224-231, 333-339 <b>TE:</b> 5A-12B, 40A-46B, 47A-54B, 224A-231B, 333A-339B
<b>F 201.</b> Extend a given pattern by a few terms for patterns that have a constant increase or decrease between terms	<b>Grade 8</b> <b>SE:</b> 189-194 <b>TE:</b> 189A-194B  <b>Algebra 1</b> <b>SE:</b> 110-117, 275-280 <b>TE:</b> 110A-117B, 275A-280B  <b>Algebra 2</b> <b>SE:</b> 31-39 <b>TE:</b> 31A-39B
<b>Score Range 16–19</b>	
<b>AF 301.</b> Solve routine one-step arithmetic problems using positive rational numbers, such as single-step percent	<b>Grade 8</b> <b>SE:</b> 7-12, 13-18, 31-36 <b>TE:</b> 7A-12B, 13A-18B, 31A-36B  <b>Algebra 1</b> <b>SE:</b> 5-10 <b>TE:</b> 5A-10B

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<b>AF 302.</b> Solve some routine two-step arithmetic problems	<p><b>Grade 8</b>  <b>SE:</b> 7-12, 31-36  <b>TE:</b> 7A-12B, 31A-36B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 11-17, 18-23, 24-29, 30-35, 36, 43-49, 57-62, 63-68, 69-74, 76-82  <b>TE:</b> 5A-10B, 11A-17B, 18A-23B, 24A-29B, 30A-35B, 43A-49B, 57A-62B, 63A-68B, 69A-74B, 76A-82B</p>
<b>AF 303.</b> Relate a graph to a situation described qualitatively in terms of familiar properties such as before and after, increasing and decreasing, higher and lower	<p><b>Grade 8</b>  <b>SE:</b> 189-194, 263-268, 283-386, 397-302, 303-308, 309-314, 315-320  <b>TE:</b> 189A-194B, 263A-268B, 283A-386B, 397A-302B, 303A-308B, 309A-314B, 315A-320B</p> <p><b>Algebra 1</b>  <b>SE:</b> 57-62, 63-68, 69-74, 76-82, 118-125, 126-134, 143-149, 171-176, 246-251, 315-321, 357-362, 425-431  <b>TE:</b> 57A-62B, 63A-68B, 69A-74B, 76A-82B, 118A-125B, 126A-134B, 143A-149B, 171A-176B, 246A-251B, 315A-321B, 357A-362B, 425A-431B</p> <p><b>Geometry</b>  <b>SE:</b> 92-98, 107-112, 113-120, 121-128, 400-405, 406-412  <b>TE:</b> 92A-98B, 107A-112B, 113A-120B, 121A-128B, 400A-405B, 406A-412B</p> <p><b>Algebra 2</b>  <b>SE:</b> 40-46, 47-54, 131-138, 201-209, 255-262, 393-399  <b>TE:</b> 40A-46B, 47A-54B, 131A-138B, 201A-209B, 255A-262B, 393A-399B</p>
<b>AF 304.</b> Apply a definition of an operation for whole numbers (e.g., $a \square b = 3a - b$ )	<p><b>Grade 8</b>  <b>SE:</b> 85-90, 91-96, 97-102, 103-110, 271-276, 277-282  <b>TE:</b> 85A-90B, 91A-96B, 97A-102B, 103A-110B, 271A-276B, 277A-282B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10  <b>TE:</b> 5A-10B</p>

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<p><b>A 301.</b> Substitute whole numbers for unknown quantities to evaluate expressions</p>	<p><b>Grade 8</b>  <b>SE:</b> 271-276  <b>TE:</b> 271A-276B</p> <p><b>Algebra 1</b>  <b>SE:</b> 11-17, 18-23, 24-29, 30-35, 150-156  <b>TE:</b> 11A-17B, 18A-23B, 24A-29B, 30A-35B, 150A-156B</p> <p><b>Algebra 2</b>  <b>SE:</b> 117-123  <b>TE:</b> 117A-123B</p>
<p><b>A 302.</b> Solve one-step equations to get integer or decimal answers</p>	<p><b>Grade 8</b>  <b>SE:</b> 85-90, 91-96  <b>TE:</b> 85A-90B, 91A-96B</p> <p><b>Algebra 1</b>  <b>SE:</b> 11-17, 18-23, 24-29, 43-49  <b>TE:</b> 11A-17B, 18A-23B, 24A-29B, 43A-49B</p> <p><b>Geometry</b>  <b>SE:</b> 22-27, 92-98  <b>TE:</b> 22A-27B, 92A-98B</p>
<p><b>A 303.</b> Combine like terms (e.g., <math>2x + 5x</math>)</p>	<p><b>Grade 8</b>  <b>SE:</b> 85-90  <b>TE:</b> 85A-90B</p> <p><b>Algebra 1</b>  <b>SE:</b> 11-17, 18-23, 30-35, 259-266, 267-274, 295-300, 301-306, 363-369  <b>TE:</b> 11A-17B, 18A-23B, 30A-35B, 259A-266B, 267A-274B, 295A-300B, 301A-306B, 363A-369B</p> <p><b>Geometry</b>  <b>SE:</b> 22-27, 92-98  <b>TE:</b> 22A-27B, 92A-98B</p> <p><b>Algebra 2</b>  <b>SE:</b> 47-54, 56-64  <b>TE:</b> 47A-54B, 56A-64B</p>

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<b>F 301.</b> Extend a given pattern by a few terms for patterns that have a constant factor between terms	<p><b>Grade 8</b>  <b>SE:</b> 189-194  <b>TE:</b> 189A-194B</p> <p><b>Algebra 1</b>  <b>SE:</b> 110-117  <b>TE:</b> 110A-117B</p> <p><b>Algebra 2</b>  <b>SE:</b> 31-39  <b>TE:</b> 31A-39B</p>
<b>SCORE RANGE 20–23</b>	
<b>AF 401.</b> Solve routine two-step or three-step arithmetic problems involving concepts such as rate and proportion, tax added, percentage off, and estimating by using a given average value in place of actual values	<p><b>Grade 8</b>  <b>SE:</b> 31-36, 117-122, 123-128  <b>TE:</b> 31A-36B, 117A-122B, 123A-128B</p> <p><b>Algebra 1</b>  <b>SE:</b> 5-10, 224-230  <b>TE:</b> 5A-10B, 224A-230B</p> <p><b>Algebra 2</b>  <b>SE:</b> 5-13  <b>TE:</b> 5A-13B</p>
<b>AF 402.</b> Perform straightforward word-to-symbol translations	<p><b>Grade 8</b>  <b>SE:</b> 195-200  <b>TE:</b> 195A-200B</p> <p><b>Algebra 1</b>  <b>SE:</b> 11-17, 24-29, 287-293, 295-300, 301-306  <b>TE:</b> 11A-17B, 24A-29B, 287A-293B, 295A-300B, 301A-306B</p>
<b>AF 403.</b> Relate a graph to a situation described in terms of a starting value and an additional amount per unit (e.g., unit cost, weekly growth)	<p><b>Grade 8</b>  <b>SE:</b> 117-122, 123-128, 141-146, 211-216, 217-222, 223-228  <b>TE:</b> 117A-122B, 123A-128B, 141A-146B, 211A-216B, 217A-222B, 223A-228B</p>

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(Continued) <b>AF 403.</b> Relate a graph to a situation described in terms of a starting value and an additional amount per unit (e.g., unit cost, weekly growth)	<p><b>Algebra 1</b>  <b>SE:</b> 183-189, 191-196, 197-202, 224-230, 231-238, 315-321, 432-437  <b>TE:</b> 183A-189B, 191A-196B, 197A-202B, 224A-230B, 231A-238B, 315A-321B, 432A-437B</p> <p><b>Algebra 2</b>  <b>SE:</b> 5-12, 131-138  <b>TE:</b> 5A-12B, 131A-138B</p>
<b>A 401.</b> Evaluate algebraic expressions by substituting integers for unknown quantities	<p><b>Grade 8</b>  <b>SE:</b> 97-102, 141-146, 271-276  <b>TE:</b> 97A-102B, 141A-146B, 271A-276B</p> <p><b>Algebra 1</b>  <b>SE:</b> 259-266, 267-274  <b>TE:</b> 259A-266B, 267A-274B</p> <p><b>Algebra 2</b>  <b>SE:</b> 139-145  <b>TE:</b> 139A-145B</p>
<b>A 402.</b> Add and subtract simple algebraic expressions	<p><b>Grade 8</b>  <b>SE:</b> 85-90, 91-96, 103-110  <b>TE:</b> 85A-90B, 91A-96B, 103A-110B</p> <p><b>Algebra 1</b>  <b>SE:</b> 259-266  <b>TE:</b> 259A-266B</p> <p><b>Algebra 2</b>  <b>SE:</b> 139-145, 217-223  <b>TE:</b> 139A-145B, 217A-223B</p>
<b>A 403.</b> Solve routine first-degree equations	<p><b>Grade 8</b>  <b>SE:</b> 85-90, 91-96, 97-102, 103-110, 129-134, 141-146, 263-268, 271-276, 277-282  <b>TE:</b> 85A-90B, 91A-96B, 97A-102B, 103A-110B, 129A-134B, 141A-146B, 263A-268B, 271A-276B, 277A-282B</p> <p><b>Algebra 1</b>  <b>SE:</b> 11-17, 18-23, 24-29  <b>TE:</b> 11A-17B, 18A-23B, 24A-29B</p>

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(Continued) <b>A 403.</b> Solve routine first-degree equations	<p><b>Geometry</b> SE: 22-27, 92-98, 400-405, 406-412 TE: 22A-27B, 92A-98B, 400A-405B, 406A-412B</p> <p><b>Algebra 2</b> SE: 40-46, 47-54 TE: 40A-46B, 47A-54B</p>
<b>A 404.</b> Multiply two binomials	<p><b>Algebra 1</b> SE: 267-274, 275-280 TE: 267A-274B, 275A-280B</p>
<b>A 405.</b> Match simple inequalities with their graphs on the number line (e.g., $x \geq -5$ )	<p><b>Algebra 1</b> SE: 30-35, 37-42, 43-49 TE: 30A-35B, 37A-42B, 43A-49B</p> <p><b>Algebra 2</b> SE: 40-46 TE: 40A-46B</p>
<b>A 406.</b> Exhibit knowledge of slope	<p><b>Grade 8</b> SE: 123-128, 129-134, 135-140, 141-146, 257-262, 263-268 TE: 123A-128B, 129A-134B, 135A-140B, 141A-146B, 257A-262B, 263A-268B</p> <p><b>Algebra 1</b> SE: 57-62, 63-68, 76-82, 231-238 TE: 57A-62B, 63A-68B, 76A-82B, 231A-238B</p> <p><b>Geometry</b> SE: 92-98 TE: 92A-98B</p> <p><b>Algebra 2</b> SE: 40-46, 47-54 TE: 40A-46B, 47A-54B</p>
<b>F 401.</b> Evaluate linear and quadratic functions, expressed in function notation, at integer values	<p><b>Grade 8</b> SE: 159-164, 165-170, 171-176, 183-188, 189-194, 195-200 TE: 159A-164B, 165A-170B, 171A-176B, 183A-188B, 189A-194B, 195A-200B</p>

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<p>(Continued) <b>F 401.</b> Evaluate linear and quadratic functions, expressed in function notation, at integer values</p>	<p><b>Algebra 1</b> <b>SE:</b> 89-94, 95-101, 329-335, 336-342 <b>TE:</b> 89A-94B, 95A-101B, 329A-335B, 336A-342B</p> <p><b>Algebra 2</b> <b>SE:</b> 5-12, 23-30, 80-87, 88-94 <b>TE:</b> 5A-12B, 23A-30B, 80A-87B, 88A-94B</p>
<p><b>SCORE RANGE 24–27</b></p>	
<p><b>AF 501.</b> Solve multistep arithmetic problems that involve planning or converting common derived units of measure (e.g., feet per second to miles per hour)</p>	<p><b>Grade 8</b> <b>SE:</b> 117-122, 417-422, 423-428, 431-436, 437-442, 443-446 <b>TE:</b> 117A-122B, 417A-422B, 423A-428B, 431A-436B, 437A-442B, 443A-446B</p> <p><b>Algebra 1</b> <b>SE:</b> 24-29 <b>TE:</b> 24A-29B</p>
<p><b>AF 502.</b> Build functions and write expressions, equations, or inequalities with a single variable for common pre-algebra settings (e.g., rate and distance problems and problems that can be solved by using proportions)</p>	<p><b>Grade 8</b> <b>SE:</b> 85-90, 91-96, 97-102, 117-122, 123-128, 129-134, 135-140, 141-146, 159-164, 183-188, 189-194, 195-200 <b>TE:</b> 85A-90B, 91A-96B, 97A-102B, 117A-122B, 123A-128B, 129A-134B, 135A-140B, 141A-146B, 159A-164B, 183A-188B, 189A-194B, 195A-200B</p> <p><b>Algebra 1</b> <b>SE:</b> 11-17, 18-23, 24-29, 30-35, 37-42, 43-49, 102-108, 110-117, 357-362, 376-381, 389-395 <b>TE:</b> 11A-17B, 18A-23B, 24A-29B, 30A-35B, 37A-42B, 43A-49B, 102A-108B, 110A-117B, 357A-362B, 376A-381B, 389A-395B</p> <p><b>Algebra 2</b> <b>SE:</b> 31-39, 40-46, 224-231, 333-339 <b>TE:</b> 31A-39B, 40A-46B, 224A-231B, 333A-339B</p>



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<p><b>AF 503.</b> Match linear equations with their graphs in the coordinate plane</p>	<p><b>Grade 8</b>  <b>SE:</b> 117-122, 123-128, 129-134, 135-140, 141-146, 257-262, 263-268, 297-302, 303-308, 309-314, 315-320  <b>TE:</b> 117A-122B, 123A-128B, 129A-134B, 135A-140B, 141A-146B, 257A-262B, 263A-268B, 297A-302B, 303A-308B, 309A-314B, 315A-320B</p> <p><b>Algebra 1</b>  <b>SE:</b> 57-62, 63-68, 69-74, 76-82, 143-149  <b>TE:</b> 57A-62B, 63A-68B, 69A-74B, 76A-82B, 143A-149B</p> <p><b>Geometry</b>  <b>SE:</b> 92-98  <b>TE:</b> 92A-98B</p> <p><b>Algebra 2</b>  <b>SE:</b> 40-46, 47-54  <b>TE:</b> 40A-46B, 47A-54B</p>
<p><b>A 501.</b> Recognize that when numerical quantities are reported in real-world contexts, the numbers are often rounded</p>	<p><b>Grade 8</b>  <b>SE:</b> 257-262  <b>TE:</b> 257A-262B</p> <p><b>Algebra 1</b>  <b>SE:</b> 487-494  <b>TE:</b> 487A-494B</p> <p><b>Algebra 2</b>  <b>SE:</b> 558-564, 581-588  <b>TE:</b> 558A-564B, 581A-588B</p>
<p><b>A 502.</b> Solve real-world problems by using first-degree equations</p>	<p><b>Grade 8</b>  <b>SE:</b> 31-36, 85-90, 91-96, 97-102, 129-134, 141-146, 271-276, 277-282, 417-422  <b>TE:</b> 31A-36B, 85A-90B, 91A-96B, 97A-102B, 129A-134B, 141A-146B, 271A-276B, 277A-282B, 417A-422B</p>

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<p>(Continued) <b>A 502.</b> Solve real-world problems by using first-degree equations</p>	<p><b>Algebra 1</b> <b>SE:</b> 11-17, 18-23, 24-29, 57-62, 63-68, 76-82, 95-101, 150-156, 157-163 <b>TE:</b> 11A-17B, 18A-23B, 24A-29B, 57A-62B, 63A-68B, 76A-82B, 95A-101B, 150A-156B, 157A-163B</p> <p><b>Geometry</b> <b>SE:</b> 22-27, 92-98, 400-405, 406-412 <b>TE:</b> 22A-27B, 92A-98B, 400A-405B, 406A-412B</p> <p><b>Algebra 2</b> <b>SE:</b> 40-46, 47-54 <b>TE:</b> 40A-46B, 47A-54B</p>
<p><b>A 503.</b> Solve first-degree inequalities when the method does not involve reversing the inequality sign</p>	<p><b>Algebra 1</b> <b>SE:</b> 30-35, 37-42, 43-49, 164-169, 171-176 <b>TE:</b> 30A-35B, 37A-42B, 43A-49B, 164A-169B, 171A-176B</p> <p><b>Algebra 2</b> <b>SE:</b> 40-46 <b>TE:</b> 40A-46B</p>
<p><b>A 504.</b> Match compound inequalities with their graphs on the number line (e.g., <math>-10.5 &lt; x \leq 20.3</math>)</p>	<p><b>Algebra 1</b> <b>SE:</b> 37-42 <b>TE:</b> 37A-42B</p> <p><b>Algebra 2</b> <b>SE:</b> 40-46 <b>TE:</b> 40A-46B</p>
<p><b>A 505.</b> Add, subtract, and multiply polynomials</p>	<p><b>Algebra 1</b> <b>SE:</b> 259-266, 267-274, 275-280 <b>TE:</b> 259A-266B, 267A-274B, 275A-280B</p> <p><b>Algebra 2</b> <b>SE:</b> 139-145 <b>TE:</b> 139A-145B</p>
<p><b>A 506.</b> Identify solutions to simple quadratic equations</p>	<p><b>Algebra 1</b> <b>SE:</b> 315-321, 322-328, 329-335, 336-342, 357-362, 363-369, 376-381 <b>TE:</b> 315A-321B, 322A-328B, 329A-335B, 336A-342B, 357A-362B, 363A-369B, 376A-381B</p>

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(Continued) <b>A 506.</b> Identify solutions to simple quadratic equations	<b>Algebra 2</b> <b>SE:</b> 73-79, 80-87, 88-94, 103-109, 110-116 <b>TE:</b> 73A-79B, 80A-87B, 88A-94B, 103A-109B, 110A-116B
<b>A 507.</b> Solve quadratic equations in the form $(x + a)(x + b) = 0$ , where $a$ and $b$ are numbers or variables	<b>Algebra 1</b> <b>SE:</b> 363-369 <b>TE:</b> 363A-369B  <b>Algebra 2</b> <b>SE:</b> 88-94 <b>TE:</b> 88A-94B
<b>A 508.</b> Factor simple quadratics (e.g., the difference of squares and perfect square trinomials)	<b>Algebra 1</b> <b>SE:</b> 275-280, 301-306, 363-369 <b>TE:</b> 275A-280B, 301A-306B, 363A-369B  <b>Algebra 2</b> <b>SE:</b> 88-94, 95-101 <b>TE:</b> 88A-94B, 95A-101B
<b>A 509.</b> Work with squares and square roots of numbers	<b>Grade 8:</b> <b>SE:</b> 25-30, 31-36, 39-44, 45-50 <b>TE:</b> 25A-30B, 31A-36B, 39A-44B, 45A-50B  <b>Algebra 1</b> <b>SE:</b> 5-10, 370-375, 376-381, 411-417 <b>TE:</b> 5A-10B, 370A-375B, 376A-381B, 411A-417B  <b>Algebra 2</b> <b>SE:</b> 95-101, 103-109, 263-271 <b>TE:</b> 95A-101B, 103A-109B, 263A-271B
<b>A 510.</b> Work with cubes and cube roots of numbers	<b>Grade 8:</b> <b>SE:</b> 25-30, 31-36, 39-44, 45-50 <b>TE:</b> 25A-30B, 31A-36B, 39A-44B, 45A-50B <b>Algebra 1</b> <b>SE:</b> 418-424 <b>TE:</b> 418A-424B  <b>Algebra 2</b> <b>SE:</b> 255-262 <b>TE:</b> 255A-262B

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<b>A 511.</b> Work with scientific notation	<p><b>Grade 8:</b>  <b>SE:</b> 57-62, 63-66, 67-72  <b>TE:</b> 57A-62B, 63A-66B, 67A-72B</p> <p><b>Algebra 1</b>  For supporting content, please see:  <b>SE:</b> 217-223, 231-238  <b>TE:</b> 217A-223B, 231A-238B</p> <p><b>Algebra 2</b>  <b>SE:</b> 239-246, 247-254  <b>TE:</b> 239A-246B, 247A-254B</p>
<b>A 512.</b> Work problems involving positive integer exponents	<p><b>Grade 8:</b>  <b>SE:</b> 39-44, 45-50, 51-56, 57-62, 67-72  <b>TE:</b> 39A-44B, 45A-50B, 51A-56B, 57A-62B, 67A-72B</p> <p><b>Algebra 1</b>  <b>SE:</b> 217-223  <b>TE:</b> 217A-223B</p> <p><b>Algebra 2</b>  <b>SE:</b> 239-246  <b>TE:</b> 239A-246B</p>
<b>A 513.</b> Determine when an expression is undefined	<p><b>Grade 8:</b>  <b>SE:</b> 103-110  <b>TE:</b> 103A-110B</p> <p><b>Algebra 1</b>  <b>SE:</b> 259-266  <b>TE:</b> 259A-266B</p> <p><b>Algebra 2</b>  <b>SE:</b> 146-153, 162-169  <b>TE:</b> 146A-153B, 162A-169B</p>
<b>A 514.</b> Determine the slope of a line from an equation	<p><b>Grade 8:</b>  <b>SE:</b> 123-128, 129-134, 135-140, 141-146, 263-268  <b>TE:</b> 123A-128B, 129A-134B, 135A-140B, 141A-146B, 263A-268B</p>

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<p>(Continued) <b>A 514.</b> Determine the slope of a line from an equation</p>	<p><b>Algebra 1</b> <b>SE:</b> 57-62, 76-82 <b>TE:</b> 57A-62B, 76A-82B</p> <p><b>Geometry</b> <b>SE:</b> 92-98 <b>TE:</b> 92A-98B</p> <p><b>Algebra 2</b> <b>SE:</b> 40-46, 47-54 <b>TE:</b> 40A-46B, 47A-54B</p>
<p><b>F 501.</b> Evaluate polynomial functions, expressed in function notation, at integer values</p>	<p><b>Algebra 1</b> <b>SE:</b> 95-101 <b>TE:</b> 95A-101B</p> <p><b>Algebra 2</b> <b>SE:</b> 131-138, 139-145 <b>TE:</b> 131A-138B, 139A-145B</p>
<p><b>F 502.</b> Find the next term in a sequence described recursively</p>	<p><b>Algebra 1</b> <b>SE:</b> 110-117 <b>TE:</b> 110A-117B</p> <p><b>Algebra 2</b> <b>SE:</b> 31-39 <b>TE:</b> 31A-39B</p>
<p><b>F 503.</b> Build functions and use quantitative information to identify graphs for relations that are proportional or linear</p>	<p><b>Grade 8</b> <b>SE:</b> 123-128, 129-134, 135-140, 141-146, 159-164, 165-170, 171-176, 183-188, 189-194 <b>TE:</b> 123A-128B, 129A-134B, 135A-140B, 141A-146B, 159A-164B, 165A-170B, 171A-176B, 183A-188B, 189A-194B</p> <p><b>Algebra 1</b> <b>SE:</b> 95-101, 102-108, 118-125, 126-134, 315-321, 344-350 <b>TE:</b> 95A-101B, 102A-108B, 118A-125B, 126A-134B, 315A-321B, 344A-350B</p>

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(Continued) <b>F 503.</b> Build functions and use quantitative information to identify graphs for relations that are proportional or linear	<b>Algebra 2</b> <b>SE:</b> 5-12, 23-30, 40-46, 117-123, 131-138, 201-209 <b>TE:</b> 5A-12B, 23A-30B, 40A-46B, 117A-123B, 131A-138B, 201A-209B
<b>F 504.</b> Attend to the difference between a function modeling a situation and the reality of the situation	<b>Algebra 1</b> <b>SE:</b> 344-350 <b>TE:</b> 344A-350B
<b>F 505.</b> Understand the concept of a function as having a well-defined output value at each valid input value	<b>Grade 8</b> <b>SE:</b> 159-164, 165-170 <b>TE:</b> 159A-164B, 165A-170B  <b>Algebra 1</b> <b>SE:</b> 89-94, 95-101, 315-321 <b>TE:</b> 89A-94B, 95A-101B, 315A-321B  <b>Algebra 2</b> <b>SE:</b> 5-12 <b>TE:</b> 5A-12B
<b>F 506.</b> Understand the concept of domain and range in terms of valid input and output, and in terms of function graphs	<b>Grade 8</b> <b>SE:</b> 159-164, 165-170 <b>TE:</b> 159A-164B, 165A-170B  <b>Algebra 1</b> <b>SE:</b> 89-94, 95-101 <b>TE:</b> 89A-94B, 95A-101B
<b>F 507.</b> Interpret statements that use function notation in terms of their context	<b>Grade 8</b> <b>SE:</b> 159-164, 165-170, 171-176, 183-188, 195-200 <b>TE:</b> 159A-164B, 165A-170B, 171A-176B, 183A-188B, 195A-200B  <b>Algebra 1</b> <b>SE:</b> 95-101, 336-342 <b>TE:</b> 95A-101B, 336A-342B
<b>F 508.</b> Find the domain of polynomial functions and rational functions	<b>Algebra 1</b> <b>SE:</b> 95-101, 102-108, 224-230, 425-431 <b>TE:</b> 95A-101B, 102A-108B, 224A-230B, 425A-431B

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(Continued) <b>F 508.</b> Find the domain of polynomial functions and rational functions	<b>Algebra 2</b> <b>SE:</b> 13-22, 23-30, 297-304, 321-326 <b>TE:</b> 13A-22B, 23A-30B, 297A-304B, 321A-326B
<b>F 509.</b> Find the range of polynomial functions	<b>Algebra 1</b> <b>SE:</b> 315-321 <b>TE:</b> 315A-321B  <b>Algebra 2</b> <b>SE:</b> 131-138, 179-186 <b>TE:</b> 131A-138B, 179A-186B
<b>F 510.</b> Find where a rational function's graph has a vertical asymptote	<b>Algebra 2</b> <b>SE:</b> 193-200, 201-209 <b>TE:</b> 193A-200B, 201A-209B
<b>F 511.</b> Use function notation for simple functions of two variables	<b>Grade 8</b> <b>SE:</b> 165-170, 171-176, 183-188, 189-194, 195-200 <b>TE:</b> 165A-170B, 171A-176B, 183A-188B, 189A-194B, 195A-200B  <b>Algebra 1</b> <b>SE:</b> 95-101, 336-342 <b>TE:</b> 95A-101B, 336A-342B
<b>SCORE RANGE 28-32</b>	
<b>AF 601.</b> Solve word problems containing several rates, proportions, or percentages	<b>Grade 8</b> <b>SE:</b> 117-122, 123-128, 183-188, 189-194, 195-200 <b>TE:</b> 117A-122B, 123A-128B, 183A-188B, 189A-194B, 195A-200B  <b>Algebra 1</b> <b>SE:</b> 102-108, 110-117, 231-238 <b>TE:</b> 102A-108B, 110A-117B, 231A-238B  <b>Algebra 2</b> <b>SE:</b> 31-39, 40-46, 224-231, 333-339 <b>TE:</b> 31A-39B, 40A-46B, 224A-231B, 333A-339B
<b>AF 602.</b> Build functions and write expressions, equations, and inequalities for common algebra settings (e.g., distance to a point on a curve and profit for variable cost and demand)	<b>Grade 8</b> <b>SE:</b> 97-102, 103-110, 141-146, 183-188, 189-194, 195-200 <b>TE:</b> 97A-102B, 103A-110B, 141A-146B, 183A-188B, 189A-194B, 195A-200B

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<p>(Continued) <b>AF 602.</b> Build functions and write expressions, equations, and inequalities for common algebra settings (e.g., distance to a point on a curve and profit for variable cost and demand)</p>	<p><b>Algebra 1</b> <b>SE:</b> 5-10, 11-17, 18-23, 24-29, 30-35, 37-42, 43-49, 57-62, 63-68, 69-74, 76-82, 231-238, 357-369, 376-381 <b>TE:</b> 5A-10B, 11A-17B, 18A-23B, 24A-29B, 30A-35B, 37A-42B, 43A-49B, 57A-62B, 63A-68B, 69A-74B, 76A-82B, 231A-238B, 357A-369B, 376A-381B</p> <p><b>Algebra 2</b> <b>SE:</b> 40-46, 73-79, 80-87, 179-186, 193-200, 224-231, 305-312, 333-339 <b>TE:</b> 40A-46B, 73A-79B, 80A-87B, 179A-186B, 193A-200B, 224A-231B, 305A-312B, 333A-339B</p>
<p><b>AF 603.</b> Interpret and use information from graphs in the coordinate plane</p>	<p><b>Grade 8</b> <b>SE:</b> 129-134, 135-140, 141-146, 183-188, 189-194, 195-200, 231-236, 337-242, 257-262, 263-268 <b>TE:</b> 129A-134B, 135A-140B, 141A-146B, 183A-188B, 189A-194B, 195A-200B, 231A-236B, 337A-242B, 257A-262B, 263A-268B</p> <p><b>Algebra 1</b> <b>SE:</b> 57-62, 63-68, 69-74, 76-82, 118-125, 126-134, 246-253, 315-321, 344-350, 357-362 <b>TE:</b> 57A-62B, 63A-68B, 69A-74B, 76A-82B, 118A-125B, 126A-134B, 246A-253B, 315A-321B, 344A-350B, 357A-362B</p> <p><b>Geometry</b> <b>SE:</b> 107-112, 113-120, 121-128, 385-391, 392-399, 400-405, 406-412 <b>TE:</b> 107A-112B, 113A-120B, 121A-128B, 385A-391B, 392A-399B, 400A-405B, 406A-412B</p> <p><b>Algebra 2</b> <b>SE:</b> 5-12, 40-46, 47-54, 131-138, 179-186, 201-209, 255-262 <b>TE:</b> 5A-12B, 40A-46B, 47A-54B, 131A-138B, 179A-186B, 201A-209B, 255A-262B</p>



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<p><b>AF 604.</b> Given an equation or function, find an equation or function whose graph is a translation by a specified amount up or down</p>	<p><b>Grade 8</b>  <b>SE:</b> 297-302  <b>TE:</b> 297A-302B</p> <p><b>Algebra 1</b>  <b>SE:</b> 102-108, 203-209, 246-251, 432-437  <b>TE:</b> 102A-108B, 203A-209B, 246A-251B, 432A-437B</p> <p><b>Geometry</b>  <b>SE:</b> 113-120  <b>TE:</b> 113A-120B</p> <p><b>Algebra 2</b>  <b>SE:</b> 13-22  <b>TE:</b> 13A-22B</p>
<p><b>A 601.</b> Manipulate expressions and equations</p>	<p><b>Grade 8</b>  <b>SE:</b> 123-128, 129-134, 135-140, 141-146, 297-302, 303-308, 309-314, 315-320, 333-338  <b>TE:</b> 123A-128B, 129A-134B, 135A-140B, 141A-146B, 297A-302B, 303A-308B, 309A-314B, 315A-320B, 333A-338B</p> <p><b>Algebra 1</b>  <b>SE:</b> 11-17, 18-23, 24-29, 43-49, 57-62, 63-68, 69-74, 76-82, 102-108, 150-156, 157-163, 203-209  <b>TE:</b> 11A-17B, 18A-23B, 24A-29B, 43A-49B, 57A-62B, 63A-68B, 69A-74B, 76A-82B, 102A-108B, 150A-156B, 157A-163B, 203A-209B</p> <p><b>Algebra 2</b>  <b>SE:</b> 13-22, 31-39, 40-46, 47-54, 73-79, 80-87, 88-94, 103-109, 179-186, 193-200, 273-280  <b>TE:</b> 13A-22B, 31A-39B, 40A-46B, 47A-54B, 73A-79B, 80A-87B, 88A-94B, 103A-109B, 179A-186B, 193A-200B, 273A-280B</p>
<p><b>A 602.</b> Solve linear inequalities when the method involves reversing the inequality sign</p>	<p><b>Algebra 1</b>  <b>SE:</b> 30-35, 37-42, 43-49, 171-176  <b>TE:</b> 30A-35B, 37A-42B, 43A-49B, 171A-176B</p> <p><b>Algebra 2</b>  <b>SE:</b> 40-46, 47-54  <b>TE:</b> 40A-46B, 47A-54B</p>

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<b>A 603.</b> Match linear inequalities with their graphs on the number line	<p><b>Algebra 1</b> SE: 30-35, 37-42, 43-49 TE: 30A-35B, 37A-42B, 43A-49B</p> <p><b>Algebra 2</b> SE: 40-46 TE: 40A-46B</p>
<b>A 604.</b> Solve systems of two linear equations	<p><b>Grade 8</b> SE: 263-268, 271-276, 277-282 TE: 263A-268B, 271A-276B, 277A-282B</p> <p><b>Algebra 1</b> SE: 143-149, 150-156, 157-163, 164-169, 171-176 TE: 143A-149B, 150A-156B, 157A-163B, 164A-169B, 171A-176B</p> <p><b>Algebra 2</b> SE: 47-54, 56-64 TE: 47A-54B, 56A-64B</p>
<b>A 605.</b> Solve quadratic equations	<p><b>Algebra 1</b> SE: 357-362, 363-369, 370-375, 376-381, 382-388, 389-395 TE: 357A-362B, 363A-369B, 370A-375B, 376A-381B, 382A-388B, 389A-395B</p> <p><b>Algebra 2</b> SE: 73-79, 80-87, 88-94, 103-109, 110-116, 117-123 TE: 73A-79B, 80A-87B, 88A-94B, 103A-109B, 110A-116B, 117A-123B</p>
<b>A 606.</b> Solve absolute value equations	<p><b>Algebra 1</b> SE: 43-49, 183-189 TE: 43A-49B, 183A-189B</p> <p><b>Algebra 2</b> SE: 23-30 TE: 23A-30B</p>
<b>F 601.</b> Relate a graph to a situation described qualitatively in terms of faster change or slower change	<p><b>Grade 8</b> SE: 171-176 TE: 171A-176B</p>

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(Continued) <b>F 601.</b> Relate a graph to a situation described qualitatively in terms of faster change or slower change	<p><b>Algebra 1</b> <b>SE:</b> 231-238, 411-417, 418-424 <b>TE:</b> 231A-238B, 411A-417B, 418A-424B</p> <p><b>Algebra 2</b> <b>SE:</b> 5-12 <b>TE:</b> 5A-12B</p>
<b>F 602.</b> Build functions for relations that are inversely proportional	<p><b>Algebra 1</b> <b>SE:</b> 451-456 <b>TE:</b> 451A-456B</p> <p><b>Algebra 2</b> <b>SE:</b> 193-200, 281-289 <b>TE:</b> 193A-200B, 281A-289B</p>
<b>F 603.</b> Find a recursive expression for the general term in a sequence described recursively	<p><b>Algebra 1</b> <b>SE:</b> 110-117, 239-245 <b>TE:</b> 110A-117B, 239A-245B</p> <p><b>Algebra 2</b> <b>SE:</b> 31-39 <b>TE:</b> 31A-39B</p>
<b>F 604.</b> Evaluate composite functions at integer values	<p><b>Algebra 2</b> <b>SE:</b> 273-280 <b>TE:</b> 273A-280B</p>
<b>SCORE RANGE 33-36</b>	
<b>AF 701.</b> Solve complex arithmetic problems involving percent of increase or decrease or requiring integration of several concepts (e.g., using several ratios, comparing percentages, or comparing averages)	<p><b>Grade 8</b> <b>SE:</b> 189-194 <b>TE:</b> 189A-194B</p> <p><b>Algebra 1</b> <b>SE:</b> 5-10, 224-230, 239-245 <b>TE:</b> 5A-10B, 224A-230B, 239A-245B</p>
<b>AF 702.</b> Build functions and write expressions, equations, and inequalities when the process requires planning and/or strategic manipulation	<p><b>Grade 8</b> <b>SE:</b> 141-146, 189-194, 195-200, 257-262, 283-286, 297-302, 303-308, 309-314, 315-320 <b>TE:</b> 141A-146B, 189A-194B, 195A-200B, 257A-262B, 283A-286B, 297A-302B, 303A-308B, 309A-314B, 315A-320B</p>

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<p>(Continued) <b>AF 702.</b> Build functions and write expressions, equations, and inequalities when the process requires planning and/or strategic manipulation</p>	<p><b>Algebra 1</b> <b>SE:</b> 11-17, 18-23, 24-29, 43-49, 57-62, 63-68, 69-74, 76-82, 102-108, 150-156, 157-163, 203-209 <b>TE:</b> 11A-17B, 18A-23B, 24A-29B, 43A-49B, 57A-62B, 63A-68B, 69A-74B, 76A-82B, 102A-108B, 150A-156B, 157A-163B, 203A-209B</p> <p><b>Algebra 2</b> <b>SE:</b> 13-22, 31-39, 40-46, 47-54, 73-79, 80-87, 88-94, 103-109, 179-186, 193-200, 273-280 <b>TE:</b> 13A-22B, 31A-39B, 40A-46B, 47A-54B, 73A-79B, 80A-87B, 88A-94B, 103A-109B, 179A-186B, 193A-200B, 273A-280B</p>
<p><b>AF 703.</b> Analyze and draw conclusions based on properties of algebra and/or functions</p>	<p><b>Grade 8</b> <b>SE:</b> 129-134, 141-146, 195-200, 217-222, 223-228, 231-236, 237-242, 297-302, 303-308, 309-314 <b>TE:</b> 129A-134B, 141A-146B, 195A-200B, 217A-222B, 223A-228B, 231A-236B, 237A-242B, 297A-302B, 303A-308B, 309A-314B</p> <p><b>Algebra 1</b> <b>SE:</b> 11-17, 43-49, 57-62, 76-82, 110-117, 118-125, 126-134, 157-163, 171-176, 191-196, 203-209, 246-251, 252, 344-350, 389-395 <b>TE:</b> 11A-17B, 43A-49B, 57A-62B, 76A-82B, 110A-117B, 118A-125B, 126A-134B, 157A-163B, 171A-176B, 191A-196B, 203A-209B, 246A-251B, 344A-350B, 389A-395B</p> <p><b>Algebra 2</b> <b>SE:</b> 13-22, 23-30, 31-39, 110-116, 117-123, 146-153, 171-178, 224-231, 273-280, 376-382 <b>TE:</b> 13A-22B, 23A-30B, 31A-39B, 110A-116B, 117A-123B, 146A-153B, 171A-178B, 224A-231B, 273A-280B, 376A-382B</p>
<p><b>AF 704.</b> Analyze and draw conclusions based on information from graphs in the coordinate plane</p>	<p><b>Grade 8</b> <b>SE:</b> 129-134, 141-146, 195-200, 217-222, 223-228, 231-236, 237-242, 297-302, 303-308, 309-314 <b>TE:</b> 129A-134B, 141A-146B, 195A-200B, 217A-222B, 223A-228B, 231A-236B, 237A-242B, 297A-302B, 303A-308B, 309A-314B</p>

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<p>(Continued) <b>AF 704.</b> Analyze and draw conclusions based on information from graphs in the coordinate plane</p>	<p><b>Algebra 1</b> <b>SE:</b> 57-62, 63-68, 69-74, 76-82, 118-125, 126-134, 246-253, 315-321, 344-350, 357-362 <b>TE:</b> 57A-62B, 63A-68B, 69A-74B, 76A-82B, 118A-125B, 126A-134B, 246A-253B, 315A-321B, 344A-350B, 357A-362B</p> <p><b>Geometry</b> <b>SE:</b> 107-112, 113-120, 121-128, 385-391, 392-399, 400-405, 406-412 <b>TE:</b> 107A-112B, 113A-120B, 121A-128B, 385A-391B, 392A-399B, 400A-405B, 406A-412B</p> <p><b>Algebra 2</b> <b>SE:</b> 5-12, 40-46, 47-54, 131-138, 179-186, 201-209, 255-262 <b>TE:</b> 5A-12B, 40A-46B, 47A-54B, 131A-138B, 179A-186B, 201A-209B, 255A-262B</p>
<p><b>AF 705.</b> Identify characteristics of graphs based on a set of conditions or on a general equation such as <math>y = ax^2 + c</math></p>	<p><b>Grade 8</b> <b>SE:</b> 129-134, 135-140, 141-146, 183-188, 263-268, 271-276, 283-286, 315-320 <b>TE:</b> 129A-134B, 135A-140B, 141A-146B, 183A-188B, 263A-268B, 271A-276B, 283A-286B, 315A-320B</p> <p><b>Algebra 1</b> <b>SE:</b> 57-62, 63-68, 69-74, 76-82, 102-108, 118-125, 126-134, 143-149, 150-156, 157-163, 336-342 <b>TE:</b> 57A-62B, 63A-68B, 69A-74B, 76A-82B, 102A-108B, 118A-125B, 126A-134B, 143A-149B, 150A-156B, 157A-163B, 336A-342B</p> <p><b>Algebra 2</b> <b>SE:</b> 13-22, 40-46, 47-54, 201-209, 255-262 <b>TE:</b> 13A-22B, 40A-46B, 47A-54B, 201A-209B, 255A-262B</p>
<p><b>AF 706.</b> Given an equation or function, find an equation or function whose graph is a translation by specified amounts in the horizontal and vertical directions</p>	<p><b>Grade 8</b> <b>SE:</b> 297-302, 315-320 <b>TE:</b> 297A-302B, 315A-320B</p> <p><b>Algebra 1</b> <b>SE:</b> 102-108, 203-209, 246-251 <b>TE:</b> 102A-108B, 203A-209B, 246A-251B</p>

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(Continued) <b>AF 706.</b> Given an equation or function, find an equation or function whose graph is a translation by specified amounts in the horizontal and vertical directions	<p><b>Geometry</b> <b>SE:</b> 113-120 <b>TE:</b> 113A-120B</p> <p><b>Algebra 2</b> <b>SE:</b> 13-22 <b>TE:</b> 13A-22B</p>
<b>A 701.</b> Solve simple absolute value inequalities	<p><b>Algebra 1</b> <b>SE:</b> 43-49 <b>TE:</b> 43A-49B</p>
<b>A 702.</b> Match simple quadratic inequalities with their graphs on the number line	<p><b>Algebra 1</b> <b>SE:</b> 164-169, 171-176 <b>TE:</b> 164A-169B, 171A-176B</p> <p><b>Algebra 2</b> <b>SE:</b> 40-46, 162-169 <b>TE:</b> 40A-46B, 162A-169B</p>
<b>A 703.</b> Apply the remainder theorem for polynomials, that $P(a)$ is the remainder when $P(x)$ is divided by $(x - a)$	<p><b>Algebra 2</b> <b>SE:</b> 154-162, 171-178 <b>TE:</b> 154A-162B, 171A-178B</p>
<b>F 701.</b> Compare actual values and the values of a modeling function to judge model fit and compare models	<p><b>Grade 8</b> <b>SE:</b> 165-170, 171-176, 183-188 <b>TE:</b> 165A-170B, 171A-176B, 183A-188B</p> <p><b>Algebra 1</b> <b>SE:</b> 89-94, 118-125, 126-134 <b>TE:</b> 89A-94B, 118A-125B, 126A-134B</p> <p><b>Algebra 2</b> <b>SE:</b> 13-24, 117-123, 179-186, 201-209 <b>TE:</b> 13A-24B, 117A-123B, 179A-186B, 201A-209B</p>
<b>F 702.</b> Build functions for relations that are exponential	<p><b>Algebra 1</b> <b>SE:</b> 224-230, 231-238, 246-251 <b>TE:</b> 224A-230B, 231A-238B, 246A-251B</p> <p><b>Algebra 2</b> <b>SE:</b> 297-304, 305-312, 333-339 <b>TE:</b> 297A-304B, 305A-312B, 333A-339B</p>

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<b>F 703.</b> Exhibit knowledge of geometric sequences	<p><b>Algebra 1</b> SE: 239-245 TE: 239A-245B</p> <p><b>Algebra 2</b> SE: 340-348 TE: 340A-348B</p>
<b>F 704.</b> Exhibit knowledge of unit circle trigonometry	<p><b>Algebra 2</b> SE: 365-375 TE: 365A-375B</p>
<b>F 705.</b> Match graphs of basic trigonometric functions with their equations	<p><b>Algebra 2</b> SE: 383-391, 393-399, 400-407 TE: 383A-391B, 393A-399B, 400A-407B</p>
<b>F 706.</b> Use trigonometric concepts and basic identities to solve problems	<p><b>Geometry</b> SE: 354-360, 361-366, 374-379 TE: 354A-360B, 361A-366B, 374A-379B</p> <p><b>Algebra 2</b> SE: 357-364, 365-375, 376-382, 383-391, 393-399, 400-407, 415-422, 424-432, 433-440 TE: 357A-364B, 365A-375B, 376A-382B, 383A-391B, 393A-399B, 400A-407B, 415A-422B, 424A-432B, 433A-440B</p>
<b>F 707.</b> Exhibit knowledge of logarithms	<p><b>Algebra 2</b> SE: 314-320, 321-326, 327-332, 333-339 TE: 314A-320B, 321A-326B, 327A-332B, 333A-339B</p>
<b>F 708.</b> Write an expression for the composite of two simple functions	<p><b>Algebra 2</b> SE: 273-280 TE: 273A-280B</p>
<b>GEOMETRY (G)</b>	
SCORE RANGE <b>13–15</b>	
<b>G 201.</b> Estimate the length of a line segment based on other lengths in a geometric figure	<p><b>Grade 8</b> SE: 339-344, 345-352 TE: 339A-344B, 345A-352B</p> <p><b>Geometry</b> SE: 5-13, 14-21 TE: 5A-13B, 14A-21B</p>

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<b>G 202.</b> 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)	<p><b>Grade 8</b>  <b>SE:</b> 345-352  <b>TE:</b> 345A-352B</p> <p><b>Geometry</b>  <b>SE:</b> 5-13  <b>TE:</b> 5A-13B</p>
<b>G 203.</b> 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)	<p><b>Grade 8</b>  <b>SE:</b> 417-422, 431-436, 437-442, 443-446  <b>TE:</b> 417A-422B, 431A-436B, 437A-442B, 443A-446B</p> <p><b>Geometry</b>  <b>SE:</b> 471-478, 480-486, 487-492  <b>TE:</b> 471A-478B, 480A-486B, 487A-492B</p>
<b>SCORE RANGE 16–19</b>	
<b>G 301.</b> Exhibit some knowledge of the angles associated with parallel lines	<p><b>Grade 8</b>  <b>SE:</b> 345-352, 353-358  <b>TE:</b> 345A-352B, 353A-358B</p> <p><b>Geometry</b>  <b>SE:</b> 71-77, 78-84, 85-91  <b>TE:</b> 71A-77B, 78A-84B, 85A-91B</p> <p><b>Algebra 2</b>  <b>SE:</b> 357-364, 376-382  <b>TE:</b> 357A-364B, 376A-382B</p>
<b>G 302.</b> Compute the perimeter of polygons when all side lengths are given	<p><b>Geometry</b>  <b>SE:</b> 385-391, 471-478  <b>TE:</b> 385A-391B, 471A-478B</p>
<b>G 303.</b> Compute the area of rectangles when whole number dimensions are given	<p><b>Grade 8</b>  <b>SE:</b> 417-422  <b>TE:</b> 417A-422B</p> <p><b>Geometry</b>  <b>SE:</b> 385-391, 471-478  <b>TE:</b> 385A-391B, 471A-478B</p>



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<b>G 304.</b> Locate points in the first quadrant	<p><b>Grade 8</b>  <b>SE:</b> 195-200, 211-216, 231-236, 263-268  <b>TE:</b> 195A-200B, 211A-216B, 231A-236B, 263A-268B</p> <p><b>Algebra 1</b>  <b>SE:</b> 57-62, 63-68, 69-74  <b>TE:</b> 57A-62B, 63A-68B, 69A-74B</p> <p><b>Geometry</b>  <b>SE:</b> 385-391, 393-399, 400-405  <b>TE:</b> 385A-391B, 393A-399B, 400A-405B</p> <p><b>Algebra 2</b>  <b>SE:</b> 40-46  <b>TE:</b> 40A-46B</p>
<b>SCORE RANGE 20-23</b>	
<b>G 401.</b> Use properties of parallel lines to find the measure of an angle	<p><b>Grade 8</b>  <b>SE:</b> 345-352, 353-358, 359-364  <b>TE:</b> 345A-352B, 353A-358B, 359A-364B</p> <p><b>Algebra 1</b>  <b>SE:</b> 76-82  <b>TE:</b> 76A-82B</p> <p><b>Geometry</b>  <b>SE:</b> 71-77, 78-84, 85-91, 92-98  <b>TE:</b> 71A-77B, 78A-84B, 85A-91B, 92A-98B</p>
<b>G 402.</b> Exhibit knowledge of basic angle properties and special sums of angle measures (e.g., 90°, 180°, and 360°)	<p><b>Grade 8</b>  <b>SE:</b> 345-352, 353-358, 359-364  <b>TE:</b> 345A-352B, 353A-358B, 359A-364B</p> <p><b>Algebra 1</b>  <b>SE:</b> 76-82  <b>TE:</b> 76A-82B</p> <p><b>Geometry</b>  <b>SE:</b> 5-13, 14-21, 36-43, 51-57, 71-77, 78-84  <b>TE:</b> 5A-13B, 14A-21B, 36A-43B, 51A-57B, 71A-77B, 78A-84B</p> <p><b>Algebra 2</b>  <b>SE:</b> 357-364, 365-375, 376-382  <b>TE:</b> 357A-364B, 365A-375B, 376A-382B</p>

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<b>G 403.</b> Compute the area and perimeter of triangles and rectangles in simple problems	<p><b>Grade 8</b>  <b>SE:</b> 417-422  <b>TE:</b> 417A-422B</p> <p><b>Geometry</b>  <b>SE:</b> 374-379, 385-391, 471-479  <b>TE:</b> 374A-379B, 385A-391B, 471A-479B</p>
<b>G 404.</b> 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)	<p><b>Grade 8</b>  <b>SE:</b> 381-386, 395-400, 401-406  <b>TE:</b> 381A-386B, 395A-400B, 401A-406B</p> <p><b>Geometry</b>  <b>SE:</b> 182-187, 188-193  <b>TE:</b> 182A-187B, 188A-193B</p>
<b>G 405.</b> Use geometric formulas when all necessary information is given	<p><b>Grade 8</b>  <b>SE:</b> 417-422, 423-428, 431-436, 437-443  <b>TE:</b> 417A-422B, 423A-428B, 431A-436B, 437A-443B</p> <p><b>Algebra 1</b>  <b>SE:</b> 239-245  <b>TE:</b> 239A-245B</p> <p><b>Geometry</b>  <b>SE:</b> 22-27, 92-98, 385-391, 419-426, 465-470, 471-478, 480-486, 487-492  <b>TE:</b> 22A-27B, 92A-98B, 385A-391B, 419A-426B, 465A-470B, 471A-478B, 480A-486B, 487A-492B</p> <p><b>Algebra 2</b>  <b>SE:</b> 340-348  <b>TE:</b> 340A-348B</p>
<b>G 406.</b> Locate points in the coordinate plane	<p><b>Grade 8</b>  <b>SE:</b> 165-170, 183-190, 195-200, 211-216, 223-228, 263-268, 315-320, 401-406  <b>TE:</b> 165A-170B, 183A-190B, 195A-200B, 211A-216B, 223A-228B, 263A-268B, 315A-320B, 401A-406B</p> <p><b>Algebra 1</b>  <b>SE:</b> 57-62, 63-68, 69-74, 76-82, 143-149  <b>TE:</b> 57A-62B, 63A-68B, 69A-74B, 76A-82B, 143A-149B</p>

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(Continued) <b>G 406.</b> Locate points in the coordinate plane	<p><b>Geometry</b>  <b>SE:</b> 22-27, 107-112, 113-120, 121-128, 129-135, 385-391, 393-399, 400-405, 406-412  <b>TE:</b> 22A-27B, 107A-112B, 113A-120B, 121A-128B, 129A-135B, 385A-391B, 393A-399B, 400A-405B, 406A-412B</p> <p><b>Algebra 2</b>  <b>SE:</b> 40-46, 47-54  <b>TE:</b> 40A-46B, 47A-54B</p>
<b>G 407.</b> Translate points up, down, left, and right in the coordinate plane	<p><b>Grade 8</b>  <b>SE:</b> 297-302, 315-320  <b>TE:</b> 297A-302B, 315A-320B</p> <p><b>Algebra 1</b>  <b>SE:</b> 102-108, 203-209, 246-251, 432-437  <b>TE:</b> 102A-108B, 203A-209B, 246A-251B, 432A-437B</p> <p><b>Geometry</b>  <b>SE:</b> 113-120, 129-135  <b>TE:</b> 113A-120B, 129A-135B</p> <p><b>Algebra 2</b>  <b>SE:</b> 13-22, 179-186  <b>TE:</b> 13A-22B, 179A-186B</p>
<b>SCORE RANGE 24–27</b>	
<b>G 501.</b> Use several angle properties to find an unknown angle measure	<p><b>Grade 8</b>  <b>SE:</b> 345-352, 353-358, 359-364  <b>TE:</b> 345A-352B, 353A-358B, 359A-364B</p> <p><b>Geometry</b>  <b>SE:</b> 5-13, 71-77, 167-173, 174-181, 182-187, 201-208, 245-251, 271-278, 279-285  <b>TE:</b> 5A-13B, 71A-77B, 167A-173B, 174A-181B, 182A-187B, 201A-208B, 245A-251B, 271A-278B, 279A-285B</p> <p><b>Algebra 2</b>  <b>SE:</b> 365-374, 375-382  <b>TE:</b> 365A-374B, 375A-382B</p>

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<b>G 502.</b> Count the number of lines of symmetry of a geometric figure	<b>Geometry</b> <b>SE:</b> 136-141 <b>TE:</b> 135A-141B
<b>G 503.</b> Use symmetry of isosceles triangles to find unknown side lengths or angle measures	<b>Geometry</b> <b>SE:</b> 157-165, 167-173, 174-181 <b>TE:</b> 157A-165B, 167A-173B, 174A-181B
<b>G 504.</b> Recognize that real-world measurements are typically imprecise and that an appropriate level of precision is related to the measuring device and procedure	<b>Grade 8</b> <b>SE:</b> 345-352 <b>TE:</b> 345A-352B  <b>Geometry</b> <b>SE:</b> 5-13 <b>TE:</b> 5A-13B
<b>G 505.</b> Compute the perimeter of simple composite geometric figures with unknown side lengths	<b>Geometry</b> <b>SE:</b> 385-391 <b>TE:</b> 385A-391B
<b>G 506.</b> Compute the area of triangles and rectangles when one or more additional simple steps are required	<b>Grade 8</b> <b>SE:</b> 417-422 <b>TE:</b> 417A-422B  <b>Geometry</b> <b>SE:</b> 301-309, 374-379, 471-478 <b>TE:</b> 301A-309B, 374A-379B, 471A-478B
<b>G 507.</b> Compute the area and circumference of circles after identifying necessary information	<b>Grade 8</b> <b>SE:</b> 423-428, 431-436, 437-442 <b>TE:</b> 423A-428B, 431A-436B, 437A-442B  <b>Geometry</b> <b>SE:</b> 400-405, 419-426, 427-434, 444-451, 452-458 <b>TE:</b> 400A-405B, 419A-426B, 427A-434B, 444A-451B, 452A-458B
<b>G 508.</b> Given the length of two sides of a right triangle, find the third when the lengths are Pythagorean triples	<b>Grade 8</b> <b>SE:</b> 381-386, 387-392, 395-400 <b>TE:</b> 381A-386B, 387A-392B, 395A-400B  <b>Geometry</b> <b>SE:</b> 345-353 <b>TE:</b> 345A-353B

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(Continued) <b>G 508.</b> Given the length of two sides of a right triangle, find the third when the lengths are Pythagorean triples	<b>Algebra 2</b> <b>SE:</b> 376-382 <b>TE:</b> 376A-382B
<b>G 509.</b> Express the sine, cosine, and tangent of an angle in a right triangle as a ratio of given side lengths	<b>Geometry</b> <b>SE:</b> 354-360, 361-366 <b>TE:</b> 354A-360B, 361A-366B  <b>Algebra 2</b> <b>SE:</b> 376-382 <b>TE:</b> 376A-382B
<b>G 510.</b> Determine the slope of a line from points or a graph	<b>Grade 8</b> <b>SE:</b> 123-128, 129-134, 141-146, 189-194, 257-262 <b>TE:</b> 123A-128B, 129A-134B, 141A-146B, 189A-194B, 257A-262B  <b>Algebra 1</b> <b>SE:</b> 57-62, 76-82 <b>TE:</b> 57A-62B, 76A-82B  <b>Geometry</b> <b>SE:</b> 92-98, 385-391 <b>TE:</b> 92A-98B, 385A-391B  <b>Algebra 2</b> <b>SE:</b> 40-46, 47-54 <b>TE:</b> 40A-46B, 47A-54B
<b>G 511.</b> Find the midpoint of a line segment	<b>Geometry</b> <b>SE:</b> 22-27, 385-391 <b>TE:</b> 22A-27B, 385A-391B  <b>Algebra 2</b> <b>SE:</b> 441-448 <b>TE:</b> 441A-448B

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<b>G 512.</b> Find the coordinates of a point rotated $180^\circ$ around a given center point	<b>Geometry</b> <b>SE:</b> 121-128 <b>TE:</b> 121A-128B
<b>SCORE RANGE 28-32</b>	
<b>G 601.</b> 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)	<b>Grade 8</b> <b>SE:</b> 417-422, 423-428, 431-436, 437-442 <b>TE:</b> 417A-422B, 423A-428B, 431A-436B, 437A-442B  <b>Geometry</b> <b>SE:</b> 465-470, 471-478, 480-486, 487-492 <b>TE:</b> 465A-470B, 471A-478B, 480A-486B, 487A-492B
<b>G 602.</b> Use the Pythagorean theorem	<b>Grade 8</b> <b>SE:</b> 381-386, 387-392, 395-400 <b>TE:</b> 381A-386B, 387A-392B, 395A-400B  <b>Geometry</b> <b>SE:</b> 435-353 <b>TE:</b> 435A-353B  <b>Algebra 2</b> <b>SE:</b> 386-392 <b>TE:</b> 386A-392B
<b>G 603.</b> Apply properties of $30^\circ$ - $60^\circ$ - $90^\circ$ , $45^\circ$ - $45^\circ$ - $90^\circ$ , similar, and congruent triangles	<b>Grade 8</b> <b>SE:</b> 353-358, 359-364 <b>TE:</b> 353A-358B, 359A-364B  <b>Geometry</b> <b>SE:</b> 345-354 <b>TE:</b> 345A-354B
<b>G 604.</b> Apply basic trigonometric ratios to solve right-triangle problems	<b>Geometry</b> <b>SE:</b> 354-360, 374-379 <b>TE:</b> 354A-360B, 374A-379B  <b>Algebra 2</b> <b>SE:</b> 357-364, 376-382 <b>TE:</b> 357A-364B, 376A-382B

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<b>G 605.</b> Use the distance formula	<p><b>Grade 8</b>  <b>SE:</b> 401-406  <b>TE:</b> 401A-406B</p> <p><b>Geometry</b>  <b>SE:</b> 22-28  <b>TE:</b> 22A-28B</p>
<b>G 606.</b> Use properties of parallel and perpendicular lines to determine an equation of a line or coordinates of a point	<p><b>Algebra 1</b>  <b>SE:</b> 76-82  <b>TE:</b> 76A-82B</p> <p><b>Geometry</b>  <b>SE:</b> 71-77, 78-84, 92-98, 99  <b>TE:</b> 71A-77B, 78A-84B, 92A-98B</p>
<b>G 607.</b> Find the coordinates of a point reflected across a vertical or horizontal line or across $y = x$	<p><b>Grade 8</b>  <b>SE:</b> 303-308  <b>TE:</b> 303A-308B</p> <p><b>Algebra 1</b>  <b>SE:</b> 102-108, 203-209, 432-438  <b>TE:</b> 102A-108B, 203A-209B, 432A-438B</p> <p><b>Geometry</b>  <b>SE:</b> 107-112, 129-135, 136-141  <b>TE:</b> 107A-112B, 129A-135B, 136A-141B</p> <p><b>Algebra 2</b>  <b>SE:</b> 13-22  <b>TE:</b> 13A-22B</p>
<b>G 608.</b> Find the coordinates of a point rotated $90^\circ$ about the origin	<p><b>Grade 8</b>  <b>SE:</b> 309-314  <b>TE:</b> 309A-314B</p> <p><b>Geometry</b>  <b>SE:</b> 121-128, 129-135  <b>TE:</b> 121A-128B, 129A-135B</p>

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<b>G 609.</b> Recognize special characteristics of parabolas and circles (e.g., the vertex of a parabola and the center or radius of a circle)	<p><b>Geometry</b> SE: 400-405, 406-412 TE: 400A-405B, 406A-412B</p> <p><b>Algebra 2</b> SE: 463-471, 472-478, 479 TE: 463A-471B, 472A-478B</p>
SCORE RANGE <b>33-36</b>	
<b>G 701.</b> Use relationships among angles, arcs, and distances in a circle	<p><b>Geometry</b> SE: 419-426, 427-434, 436-443, 444-451, 452-458 TE: 419A-426B, 427A-434B, 436A-443B, 444A-451B, 452A-458B</p> <p><b>Algebra 2</b> SE: 365-375, 472-478 TE: 365A-375B, 472A-478B</p>
<b>G 702.</b> Compute the area of composite geometric figures when planning and/or visualization is required	<p><b>Geometry</b> SE: 301-309, 374-379, 419-426, 471-478 TE: 301A-309B, 374A-379B, 419A-426B, 471A-478B</p> <p><b>Algebra 2</b> SE: 528-536 TE: 528A-536B</p>
<b>G 703.</b> Use scale factors to determine the magnitude of a size change	<p><b>Grade 8</b> SE: 333-338, 339-344 TE: 333A-338B, 339A-344B</p> <p><b>Geometry</b> SE: 301-309 TE: 301A-309B</p>
<b>G 704.</b> Analyze and draw conclusions based on a set of conditions	<p><b>Grade 8</b> SE: 129-134, 141-146, 211-216, 217-222, 223-228, 297-302, 303-308, 309-314, 315-320 TE: 129A-134B, 141A-146B, 211A-216B, 217A-222B, 223A-228B, 297A-302B, 303A-308B, 309A-314B, 315A-320B</p>



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(Continued) <b>G 704.</b> Analyze and draw conclusions based on a set of conditions	<p><b>Geometry</b>  <b>SE:</b> 14-21, 22-27, 36-43, 44-50, 51-57, 78-84, 167-173, 174-181, 182-187, 271-278, 317-323, 324-331, 374-379, 393-399, 465-470  <b>TE:</b> 14A-21B, 22A-27B, 36A-43B, 44A-50B, 51A-57B, 78A-84B, 167A-173B, 174A-181B, 182A-187B, 271A-278B, 317A-323B, 324A-331B, 374A-379B, 393A-399B, 465A-470B</p> <p><b>Algebra 2</b>  <b>SE:</b> 357-364, 365-375, 424-432, 472-478, 480-488, 489-497  <b>TE:</b> 357A-364B, 365A-375B, 424A-432B, 472A-478B, 480A-488B, 489A-497B</p>
<b>G 705.</b> Solve multistep geometry problems that involve integrating concepts, planning, and/or visualization	<p><b>Grade 8</b>  <b>SE:</b> 297-302, 303-308, 309-314, 315-320, 325-330, 333-338  <b>TE:</b> 297A-302B, 303A-308B, 309A-314B, 315A-320B, 325A-330B, 333A-338B</p> <p><b>Geometry</b>  <b>SE:</b> 22-27, 51-57, 78-84, 85-91, 92-98, 113-120, 121-128, 233-238, 324-331, 333-339, 436-443, 452-458, 471-478, 480-486  <b>TE:</b> 22A-27B, 51A-57B, 78A-84B, 85A-91B, 92A-98B, 113A-120B, 121A-128B, 233A-238B, 324A-331B, 333A-339B, 436A-443B, 452A-458B, 471A-478B, 480A-486B</p> <p><b>Algebra 2</b>  <b>SE:</b> 357-364, 365-375, 424-432, 472-478, 480-488, 489-497  <b>TE:</b> 357A-364B, 365A-375B, 424A-432B, 472A-478B, 480A-488B, 489A-497B</p>
<b>STATISTICS AND PROBABILITY (S)</b>	
<b>SCORE RANGE 13-15</b>	
<b>S 201.</b> Calculate the average of a list of positive whole numbers	<p><b>Algebra 1</b>  <b>SE:</b> 465-471, 472-479  <b>TE:</b> 465A-471B, 472A-479B</p>

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(Continued) <b>S 201.</b> Calculate the average of a list of positive whole numbers	<b>Algebra 2</b> <b>SE:</b> 565-572, 581-588 <b>TE:</b> 565A-572B, 581A-588B
<b>S 202.</b> Extract one relevant number from a basic table or chart, and use it in a single computation	<b>Grade 8</b> <b>SE:</b> 217-222, 223-228, 231-236 <b>TE:</b> 217A-222B, 223A-228B, 231A-236B  <b>Algebra 1</b> <b>SE:</b> 487-494, 495-500 <b>TE:</b> 487A-494B, 495A-500B  <b>Algebra 2</b> <b>SE:</b> 551-557, 558-564, 565-572, 573-580 <b>TE:</b> 551A-557B, 558A-564B, 565A-572B, 573A-580B
<b>SCORE RANGE 16-19</b>	
<b>S 301.</b> Calculate the average of a list of numbers	<b>Algebra 1</b> <b>SE:</b> 465-471, 472-479 <b>TE:</b> 465A-471B, 472A-479B  <b>Algebra 2</b> <b>SE:</b> 565-572, 581-588 <b>TE:</b> 565A-572B, 581A-588B
<b>S 302.</b> Calculate the average given the number of data values and the sum of the data values	<b>Algebra 1</b> <b>SE:</b> 465-471, 472-479 <b>TE:</b> 465A-471B, 472A-479B  <b>Algebra 2</b> <b>SE:</b> 565-572, 581-588 <b>TE:</b> 565A-572B, 581A-588B
<b>S 303.</b> Read basic tables and charts	<b>Grade 8</b> <b>SE:</b> 211-216, 217-222, 223-228, 231-236, 237-242 <b>TE:</b> 211A-216B, 217A-222B, 223A-228B, 231A-236B, 237A-242B  <b>Algebra 1</b> <b>SE:</b> 465-471, 472-479, 480-486, 487-494, 495-500 <b>TE:</b> 465A-471B, 472A-479B, 480A-486B, 487A-494B, 495A-500B

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<p>(Continued) <b>S 303.</b> Read basic tables and charts</p>	<p><b>Geometry</b> <b>SE:</b> 499-506, 507-513, 515-521, 522-529, 537-543 <b>TE:</b> 499A-506B, 507A-513B, 515A-521B, 522A-529B, 537A-543B</p> <p><b>Algebra 2</b> <b>SE:</b> 551-557, 558-564, 565-572, 573-580, 581-588, 589-596, 605-612, 628-635, 643-649 <b>TE:</b> 551A-557B, 558A-564B, 565A-572B, 573A-580B, 581A-588B, 589A-596B, 605A-612B, 628A-635B, 643A-649B</p>
<p><b>S 304.</b> Extract relevant data from a basic table or chart and use the data in a computation</p>	<p><b>Grade 8</b> <b>SE:</b> 211-216, 217-222, 223-228, 231-236, 237-242 <b>TE:</b> 211A-216B, 217A-222B, 223A-228B, 231A-236B, 237A-242B</p> <p><b>Algebra 1</b> <b>SE:</b> 465-471, 472-479, 480-486, 487-494, 495-500 <b>TE:</b> 465A-471B, 472A-479B, 480A-486B, 487A-494B, 495A-500B</p> <p><b>Geometry</b> <b>SE:</b> 499-506, 507-513, 515-521, 522-529, 537-543 <b>TE:</b> 499A-506B, 507A-513B, 515A-521B, 522A-529B, 537A-543B</p> <p><b>Algebra 2</b> <b>SE:</b> 551-557, 558-564, 565-572, 573-580, 581-588, 589-596, 605-612, 628-635, 643-649 <b>TE:</b> 551A-557B, 558A-564B, 565A-572B, 573A-580B, 581A-588B, 589A-596B, 605A-612B, 628A-635B, 643A-649B</p>
<p><b>S 305.</b> Use the relationship between the probability of an event and the probability of its complement</p>	<p><b>Geometry</b> <b>SE:</b> 499-506 <b>TE:</b> 499A-506B</p> <p><b>Algebra 2</b> <b>SE:</b> 605-612, 613-619, 621-627, 643-649 <b>TE:</b> 605A-612B, 613A-619B, 621A-627B, 643A-649B</p>

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<b>SCORE RANGE 20-23</b>	
<b>S 401.</b> Calculate the missing data value given the average and all data values but one	<p><b>Algebra 1</b> SE: 465-471, 472-479 TE: 465A-471B, 472A-479B</p> <p><b>Algebra 2</b> SE: 551-557, 558-564 TE: 551A-557B, 558A-564B</p>
<b>S 402.</b> Translate from one representation of data to another (e.g., a bar graph to a circle graph)	<p><b>Grade 8</b> SE: 211-216, 231-236, 237-242 TE: 211A-216B, 231A-236B, 237A-242B</p> <p><b>Algebra 1</b> SE: 465-471, 472-479, 495-500 TE: 465A-471B, 472A-479B, 495A-500B</p> <p><b>Algebra 2</b> SE: 565-572, 573-580, 581-588 TE: 565A-572B, 573A-580B, 581A-588B</p>
<b>S 403.</b> Determine the probability of a simple event	<p><b>Geometry</b> SE: 499-506 TE: 499A-506B</p> <p><b>Algebra 2</b> SE: 605-612 TE: 605A-612B</p>
<b>S 404.</b> Describe events as combinations of other events (e.g., using <i>and</i> , <i>or</i> , and <i>not</i> )	<p><b>Geometry</b> SE: 499-506 TE: 499A-506B</p> <p><b>Algebra 2</b> SE: 605-612, 613-619, 621-627 TE: 605A-612B, 613A-619B, 621A-627B</p>
<b>S 405.</b> Exhibit knowledge of simple counting techniques	<p><b>Algebra 2</b> SE: 620, 621-627 TE: 621A-627B</p>

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<b>SCORE RANGE 24-27</b>	
<b>S 501.</b> Calculate the average given the frequency counts of all the data values	<b>Algebra 2</b> <b>SE:</b> 565-572, 573-580, 581-588 <b>TE:</b> 565A-572B, 573A-580B, 581A-588B
<b>S 502.</b> Manipulate data from tables and charts	<b>Grade 8</b> <b>SE:</b> 211-216, 217-222, 223-228, 231-236, 237-242 <b>TE:</b> 211A-216B, 217A-222B, 223A-228B, 231A-236B, 237A-242B  <b>Algebra 1</b> <b>SE:</b> 465-471, 472-479, 480-486, 487-494, 495-500 <b>TE:</b> 465A-471B, 472A-479B, 480A-486B, 487A-494B, 495A-500B  <b>Geometry</b> <b>SE:</b> 499-506, 507-513, 515-521, 522-529, 537-543 <b>TE:</b> 499A-506B, 507A-513B, 515A-521B, 522A-529B, 537A-543B  <b>Algebra 2</b> <b>SE:</b> 551-557, 558-564, 565-572, 573-580, 581-588, 589-596, 605-612, 628-635, 643-649 <b>TE:</b> 551A-557B, 558A-564B, 565A-572B, 573A-580B, 581A-588B, 589A-596B, 605A-612B, 628A-635B, 643A-649B
<b>S 503.</b> Compute straightforward probabilities for common situations	<b>Geometry</b> <b>SE:</b> 499-506, 507-513, 515-521 <b>TE:</b> 499A-506B, 507A-513B, 515A-521B  <b>Algebra 2</b> <b>SE:</b> 605-612, 613-619, 621-627, 628-635, 636-642 <b>TE:</b> 605A-612B, 613A-619B, 621A-627B, 628A-635B, 636A-642B
<b>S 504.</b> Use Venn diagrams in counting	<b>Geometry</b> <b>SE:</b> 499-506 <b>TE:</b> 499A-506B  <b>Algebra 2</b> <b>SE:</b> 605-612 <b>TE:</b> 605A-612B

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<b>S 505.</b> Recognize that when data summaries are reported in the real world, results are often rounded and must be interpreted as having appropriate precision	<p><b>Grade 8</b>  <b>SE:</b> 211-216, 217-222, 223-228  <b>TE:</b> 211A-216B, 217A-222B, 223A-228B</p> <p><b>Algebra 1</b>  <b>SE:</b> 465-471, 472-479, 480-486, 487-494  <b>TE:</b> 465A-471B, 472A-479B, 480A-486B, 487A-494B</p> <p><b>Algebra 2</b>  <b>SE:</b> 581-588  <b>TE:</b> 581A-588B</p>
<b>S 506.</b> Recognize that when a statistical model is used, model values typically differ from actual values	<p><b>Grade 8</b>  <b>SE:</b> 217-222, 223-228  <b>TE:</b> 217A-222B, 223A-228B</p> <p><b>Algebra 1</b>  <b>SE:</b> 465-471, 472-479, 480-486, 487-494  <b>TE:</b> 465A-471B, 472A-479B, 480A-486B, 487A-494B</p> <p><b>Algebra 2</b>  <b>SE:</b> 581-588  <b>TE:</b> 581A-588B</p>
<b>SCORE RANGE 28-32</b>	
<b>S 601.</b> Calculate or use a weighted average	<p><b>Algebra 2</b>  <b>SE:</b> 558-564, 581-588  <b>TE:</b> 558A-564B, 581A-588B</p>
<b>S 602.</b> Interpret and use information from tables and charts, including two-way frequency tables	<p><b>Grade 8</b>  <b>SE:</b> 211-216, 231-236, 237-242  <b>TE:</b> 211A-216B, 231A-236B, 237A-242B</p> <p><b>Algebra 1</b>  <b>SE:</b> 465-471, 472-479, 480-486, 495-500  <b>TE:</b> 465A-471B, 472A-479B, 480A-486B, 495A-500B</p> <p><b>Algebra 2</b>  <b>SE:</b> 565-572, 573-580, 589-596  <b>TE:</b> 565A-572B, 573A-580B, 589A-596B</p>
<b>S 603.</b> Apply counting techniques	<p><b>Algebra 2</b>  <b>SE:</b> 620, 621-627  <b>TE:</b> 621A-627B</p>

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<b>S 604.</b> Compute a probability when the event and/or sample space are not given or obvious	<p><b>Geometry</b> SE: 515-521, 522-529 TE: 515A-521B, 522A-529B</p> <p><b>Algebra 2</b> SE: 613-619, 643-649 TE: 613A-619B, 643A-649B</p>
<b>S 605.</b> Recognize the concepts of conditional and joint probability expressed in real-world contexts	<p><b>Geometry</b> SE: 507-513 TE: 507A-513B</p> <p><b>Algebra 2</b> SE: 613-619 TE: 613A-619B</p>
<b>S 606.</b> Recognize the concept of independence expressed in real-world contexts	<p><b>Geometry</b> SE: 499-506, 507-513 TE: 499A-506B, 507A-513B</p> <p><b>Algebra 2</b> SE: 605-612, 613-619 TE: 605A-612B, 613A-619B</p>
<b>SCORE RANGE 33-36</b>	
<b>S 701.</b> Distinguish between mean, median, and mode for a list of numbers	<p><b>Algebra 1</b> SE: 465-471, 472-479, 480-486 TE: 465A-471B, 472A-479B, 480A-486B</p> <p><b>Algebra 2</b> SE: 565-572, 573-580, 581-588 TE: 565A-572B, 573A-580B, 581A-588B</p>
<b>S 702.</b> Analyze and draw conclusions based on information from tables and charts, including two-way frequency tables	<p><b>Grade 8</b> SE: 211-216, 231-236, 237-242 TE: 211A-216B, 231A-236B, 237A-242B</p> <p><b>Algebra 1</b> SE: 465-471, 472-479, 480-486, 495-500 TE: 465A-471B, 472A-479B, 480A-486B, 495A-500B</p> <p><b>Algebra 2</b> SE: 565-572, 573-580, 589-596 TE: 565A-572B, 573A-580B, 589A-596B</p>

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<b>S 703.</b> Understand the role of randomization in surveys, experiments, and observational studies	<p><b>Algebra 1</b>  <b>SE:</b> 465-471, 472-479  <b>TE:</b> 465A-471B, 472A-479B</p> <p><b>Algebra 2</b>  <b>SE:</b> 551-557, 558-564  <b>TE:</b> 551A-557B, 558A-564B</p>
<b>S 704.</b> Exhibit knowledge of conditional and joint probability	<p><b>Geometry</b>  <b>SE:</b> 507-513  <b>TE:</b> 507A-513B</p> <p><b>Algebra 2</b>  <b>SE:</b> 613-619  <b>TE:</b> 613A-619B</p>
<b>S 705.</b> Recognize that part of the power of statistical modeling comes from looking at regularity in the differences between actual values and model values	<p><b>Algebra 1</b>  <b>SE:</b> 465-471, 480-486, 487-494  <b>TE:</b> 465A-471B, 480A-486B, 487A-494B</p> <p><b>Algebra 2</b>  <b>SE:</b> 581-588  <b>TE:</b> 581A-588B</p>