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Correlated to:

**Ohio Mathematics Academic Content Standards
(Grade 7)**

OHIO GRADE LEVEL INDICATORS	PAGES WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
NUMBER, NUMBER SENSE AND OPERATIONS STANDARD	
Students demonstrate number sense including an understanding of number systems and operations, and how they relate to one another. Students compute fluently and make reasonable estimates using paper and pencil, technology-supported and mental methods.	
1. Demonstrate an understanding of place value using powers of 10 and write large numbers in scientific notation.	SE/TE: <i>The Data Around Us:</i> 23, 39-40, 41-49, 51-54 TE: <i>The Data Around Us:</i> 37b, 37j, 50e-f, 50h <i>Variables and Patterns:</i> 1b TECH: www.phschool.com
2. Explain the meaning of exponents that are negative or 0.	SE/TE: <i>The Data Around Us:</i> 23, 39-40, 41-49, 51-54 TE: <i>The Data Around Us:</i> 37b, 37j, 50e-f, 50h <i>Variables and Patterns:</i> 1b TECH: www.phschool.com

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OHIO GRADE LEVEL INDICATORS	PAGES WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
3. Describe differences between rational and irrational numbers.	SE/TE: <i>Accentuate the Negative:</i> 3, 4, 5, 6-9, 7-11, 12-16, 18-25, 26-32, 40-41, 42, 46-51, 53-55, 60-65, 77-81 <i>Comparing and Scaling:</i> 10-14, 26-30, 31-35, 69-70 TE: <i>Accentuate the Negative:</i> 1c, 4b, 17a-e, 17h, 33a-h, 33n, 52e-l, 52h-j, 66a-e, 66g-I <i>Comparing and Scaling:</i> 4b, 15a-d, 25f, 36a-f, 81b-c TECH: www.phschool.com
4. Use order of operations and properties to simplify numerical expressions involving integers, fractions and decimals.	SE/TE: <i>Accentuate the Negative:</i> 3, 4, 5, 6-9, 7-11, 12-16, 18-25, 26-32, 40-41, 42, 44-45, 46-51, 53-55, 59, 60-65, 77-81 <i>Comparing and Scaling:</i> 10-14, 26-30, 31-35, 69-70 TE: <i>Accentuate the Negative:</i> 1c, 4b, 17a-e, 17h, 33a-h, 33n, 52e-l, 52h-j, 66a-e, 66g-I <i>Comparing and Scaling:</i> 4b, 15a-d, 25f, 36a-f, 81b-c <i>The Data Around Us:</i> 4b, 11f, 22f, 37j, 50h, 60h TECH: www.phschool.com
5. Explain the meaning and effect of adding, subtracting, multiplying and dividing integers.	SE/TE: <i>Accentuate the Negative:</i> 4, 18-25, 53-58, 59 TE: <i>Accentuate the Negative:</i> 1b, 1c, 1e, 17h, 33a-g, 52p, 66a-f, 66g-I TECH: www.phschool.com

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6. Simplify numerical expressions involving integers and use integers to solve real-life problems.	TE: <i>Accentuate the Negative:</i> 1f, 4b, 33n, 52p, 66l <i>Comparing and Scaling:</i> 1c, 4b, 15f, 25f, 36h, 61j, 64l <i>The Data Around Us:</i> 4b, 11f, 22f, 37j, 50h, 60h TECH: www.phschool.com
7. Solve problems using the appropriate form of a rational number (fraction, decimal or percent).	SE/TE: <i>Comparing and Scaling:</i> 5-9, 10-14, 15-19, 20-24, 26-30, 31-35, 69-70, 73-80 TE: <i>Accentuate the Negative:</i> 1f, 4b, 33n, 52p, 66l <i>Comparing and Scaling:</i> 1c, 4b, 15a-d, 15f, 25a-c, 25f, 36a-f, 36h, 61j, 64l, 81b-c <i>The Data Around Us:</i> 4b, 11f, 22f, 37j, 50h, 60h TECH: www.phschool.com
8. Develop and analyze algorithms for computing with percents and integers, and demonstrate fluency in their use.	SE/TE: <i>Comparing and Scaling:</i> 5-9, 10-14, 15-19, 20-24, 26-30, 31-35, 69-70, 73-80 <i>The Data Around Us:</i> 23, 40-49, 51-54 TE: <i>Comparing and Scaling:</i> 1c, 4b, 15a-d, 15f, 25a-c, 25f, 36a-f, 36h, 61j, 64l, 81b-c <i>The Data Around Us:</i> 37j, 50h, 51e-f, 60a-f TECH: www.phschool.com

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9. Represent and solve problem situations that can be modeled by and solved using concepts of absolute value, exponents and square roots (for perfect squares).	SE/TE: <i>The Data Around Us:</i> 23, 40-49, 51-54 <i>Accentuate the Negative:</i> 55 TE: <i>The Data Around Us:</i> 1b, 11f, 22f, 37j, 50h, 51e-f, 60a-f, 60h <i>Accentuate the Negative:</i> 33g, 52I <i>Stretching and Shrinking:</i> 84d TECH: www.phschool.com
MEASUREMENT STANDARD	
Students estimate and measure to a required degree of accuracy and precision by selecting and using appropriate units, tools and technologies.	
1. Select appropriate units for measuring derived measurements.	SE/TE: <i>Comparing and Scaling:</i> 40-43, 96-97, 104-109 <i>The Data Around Us:</i> 12-18, 78-79, 84-91 <i>What Do You Expect?:</i> 91-92, 93-94, 102, 103-112 TE: <i>Comparing and Scaling:</i> 36h, 51a-f <i>The Data Around Us:</i> 11f, 22a-e TECH: www.phschool.com

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<p>2. Convert units of area and volume within the same measurement system using proportional reasoning and a reference table when appropriate.</p>	<p>SE/TE: <i>Comparing and Scaling:</i> 40-43, 96-97, 104-109 <i>The Data Around Us:</i> 12-18, 78-79, 84-91 <i>What Do You Expect?:</i> 91-92, 93-94, 102, 103-112 <i>Variables and Patterns:</i> 6, 8-9, 10-17, 18-25, 26-34, 36-41, 42-47, 49-53, 54-59, 63, 64-67 <i>Stretching and Shrinking:</i> 4, 18</p> <p>TE: <i>Comparing and Scaling:</i> 36h, 51a-f <i>The Data Around Us:</i> 11f, 22a-e <i>Variables and Patterns:</i> 1b-c, 1f, 17f, 35a-f, 48a-f, 48n, 60a-e, 60j <i>Stretching and Shrinking:</i> 1a, 1b-c, 1d, 4b, 13f, 27n, 40f, 58j, 74l</p> <p>TECH: www.phschool.com</p>

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3. Estimate a measurement to a greater degree of precision than the tool provides.	<p>SE/TE: Comparing and Scaling: 40-43, 96-97, 104-109 The Data Around Us: 12-18, 78-79, 84-91 What Do You Expect?: 91-92, 93-94, 102, 103-112 Variables and Patterns: 6, 8-9, 10-17, 18-25, 26-34, 36-41, 42-47, 49-53, 54-59, 63, 64-67 Stretching and Shrinking: 4, 18</p> <p>TE: Comparing and Scaling: 36h, 51a-f The Data Around Us: 11f, 22a-e Variables and Patterns: 1b-c, 1f, 17f, 35a-f, 48a-f, 48n, 60a-e, 60j Stretching and Shrinking: 1a, 1b-c, 1d, 4b, 13f, 27n, 40f, 58j, 74l</p> <p>TECH: www.phschool.com</p>
4. Solve problems involving proportional relationships and scale factors.	<p>SE/TE: Comparing and Scaling: 5-9, 10-14, 27-30, 31-35, 59-63, 65-66 Stretching and Shrinking: 4, 18-19, 20, 22-26, 28-32, 33-39, 41-46, 47-57 Moving Straight Ahead: 37</p> <p>TE: Comparing and Scaling: 15a-d, 25f, 36a-f, 81a Stretching and Shrinking: 1b-c, 13f, 27d-j, 40a-g, 58a-f, 84d-f</p> <p>TECH: www.phschool.com</p>

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5. Analyze problem situations involving measurement concepts, select appropriate strategies, and use an organized approach to solve narrative and increasingly complex problems.	SE/TE: <i>Comparing and Scaling:</i> 40-43, 96-97, 104-109 <i>The Data Around Us:</i> 12-18, 78-79, 84-91 <i>What Do You Expect?:</i> 91-92, 93-94, 102, 103-112 TE: <i>Comparing and Scaling:</i> 36h, 51a-f <i>The Data Around Us:</i> 11f, 22a-e TECH: www.phschool.com
6. Use strategies to develop formulas for finding area of trapezoids and volume of cylinders and prisms.	SE/TE: <i>Variables and Patterns:</i> 12, 49, 50-53, 54-59 <i>Stretching and Shrinking:</i> 4, 7, 28-32 <i>What Do You Expect?:</i> 32-35, 42-44 <i>Filling and Wrapping:</i> 15, 16-17, 18-22, 24-28, 29-35, 38-40, 41-44, 47-50, 51-55, 61-66, 70-71 TE: <i>Stretching and Shrinking:</i> 13c-d, 27n, 40a-g <i>What Do You Expect?:</i> 1d, 31j, 40a-d, 49a-j <i>Filling and Wrapping:</i> 1a, 1b-d, 23a-e, 23h, 36a-e, 36h, 45a-g, 45j, 56a-c TECH: www.phschool.com

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7. Develop strategies to find the area of composite shapes using the areas of triangles, parallelograms, circles and sectors.	<p>SE/TE: <i>Stretching and Shrinking:</i> 4, 7, 28-32 <i>What Do You Expect?:</i> 4, 18-29, 32-35, 36-39, 41-44, 45-48 <i>Filling and Wrapping:</i> 4, 15, 18-22, 29-35, 41-44, 61-66</p> <p>TE: <i>Stretching and Shrinking:</i> 13c-d, 27n, 40a-g <i>What Do You Expect?:</i> 1d, 31j, 40a-d, 49a-j <i>Filling and Wrapping:</i> 1a</p> <p>TECH: www.phschool.com</p>
8. Understand the difference between surface area and volume and demonstrate that two objects may have the same surface area, but different volumes or may have the same volume, but different surface areas.	<p>SE/TE: <i>Variables and Patterns:</i> 12, 49, 50-53, 54-59 <i>Stretching and Shrinking:</i> 4, 7, 28-32 <i>What Do You Expect?:</i> 32-35, 42-44 <i>Filling and Wrapping:</i> 4, 15, 16-17, 18-22, 24-28, 29-35, 38-40, 41-44, 47-50, 51-55, 61-66, 70-71</p> <p>TE: <i>Stretching and Shrinking:</i> 13c-d, 27n, 40a-g <i>What Do You Expect?:</i> 1d, 31j, 40a-d, 49a-j <i>Filling and Wrapping:</i> 1a, 1b-d, 23a-e, 23h, 36a-e, 36h, 45a-g, 45j, 56a-c</p> <p>TECH: www.phschool.com</p>

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<p>9. Describe what happens to the surface area and volume of a three-dimensional object when the measurements of the object are changed.</p>	<p>SE/TE: <i>Variables and Patterns:</i> 12, 49, 50-53, 54-59 <i>Stretching and Shrinking:</i> 4, 7, 28-32 <i>What Do You Expect?:</i> 32-35, 42-44 <i>Filling and Wrapping:</i> 4, 15, 16-17, 18-22, 24-28, 29-35, 38-40, 41-44, 47-50, 51-55, 61-66, 70-71</p> <p>TE: <i>Stretching and Shrinking:</i> 13c-d, 27n, 40a-g <i>What Do You Expect?:</i> 1d, 31j, 40a-d, 49a-j <i>Filling and Wrapping:</i> 1a, 1b-d, 23a-e, 23h, 36a-e, 36h, 45a-g, 45j, 56a-c</p> <p>TECH: www.phschool.com</p>

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GEOMETRY AND SPATIAL SENSE STANDARD	
Students identify, classify, compare and analyze characteristics, properties and relationships of one-, two-, and three-dimensional geometric figures and objects. Students use spatial reasoning, properties of geometric objects and transformations to analyze mathematical situations and solve problems.	
1. Use proportional reasoning to describe and express relationships between parts and attributes of similar and congruent figures.	SE/TE: <i>Stretching and Shrinking:</i> 4, 7-8, 9-12, 14-21, 22-26, 28-32, 33-39, 41-46, 59-63, 64-73, 75-80 <i>Comparing and Scaling:</i> 4, 69-70, 73-80 TE: <i>Stretching and Shrinking:</i> 1a, 1b-c, 13c-d, 13f, 27a-j, 40a-g, 74a-h, 84a-g <i>Comparing and Scaling:</i> 1b, 4b, 36h, 51j, 64l, 81b-c TECH: www.phschool.com
2. Determine sufficient (not necessarily minimal) properties that define a specific two-dimensional figure or three-dimensional object. (Determine when one set of figures is a subset of another, and develop a set of properties that eliminates all but the desired figure).	SE/TE: <i>Moving Straight Ahead:</i> 4, 64-66 <i>Filling and Wrapping:</i> 4, 5-6, 7-9, 10-13, 15-18, 19-22, 26-28, 29-35, 37-40, 46-50, 57-60, 61-63 <i>Stretching and Shrinking:</i> 4, 7-8, 9-12, 14-21, 22-26, 28-32, 33-39, 41-46, 59-63, 64-73, 75-80 TE: <i>Moving Straight Ahead:</i> 1c-e, 63j, 79a-j <i>Filling and Wrapping:</i> 1b, 1c, 1d, 4b, 14c-f, 14j, 23a-e, 23h, 36d-e, 36h, 45a-g, 45j56c-e, 67a-f <i>Stretching and Shrinking:</i> 1a, 1b-c, 13c-d, 13f, 27a-j, 40a-g, 74a-h, 84a-g TECH: www.phschool.com

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3. Use and demonstrate understanding of the properties of triangles, using the Pythagorean Theorem to solve problems involving right triangles, and the triangle angle sum relationships to solve problems.	SE/TE: <i>Filling and Wrapping:</i> 26-28 <i>Stretching and Shrinking:</i> 59-74 TE: <i>Filling and Wrapping:</i> 1c, 23h, 36d-e <i>Stretching and Shrinking:</i> 1e, 58j, 74a-k TECH: www.phschool.com
4. Determine necessary conditions for congruence of triangles.	SE/TE: <i>Stretching and Shrinking:</i> 4, 7-8, 9-12, 14-21, 22-26, 28-32, 33-39, 41-46, 59-63, 64-73, 75-80 <i>Comparing and Scaling:</i> 4, 69-70, 73-80 <i>Filling and Wrapping:</i> 26-28 TE: <i>Stretching and Shrinking:</i> 1a, 1b-c, 1e, 13c-d, 13f, 27a-j, 40a-g, 58j, 74a-k, 84a-g <i>Comparing and Scaling:</i> 1b, 4b, 36h, 51j, 64l, 81b-c <i>Filling and Wrapping:</i> 1c, 23h, 36d-e TECH: www.phschool.com

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5. Apply properties of congruent or similar triangles to solve problems involving missing lengths and angle measures.	SE/TE: <i>Stretching and Shrinking:</i> 4, 7-8, 9-12, 14-21, 22-26, 28-32, 33-39, 41-46, 59-63, 64-73, 75-80 <i>Comparing and Scaling:</i> 4, 69-70, 73-80 <i>Filling and Wrapping:</i> 26-28 TE: <i>Stretching and Shrinking:</i> 1a, 1b-c, 1e, 13c-d, 13f, 27a-j, 40a-g, 58j, 74a-k, 84a-g <i>Comparing and Scaling:</i> 1b, 4b, 36h, 51j, 64l, 81b-c <i>Filling and Wrapping:</i> 1c, 23h, 36d-e TECH: www.phschool.com
6. Determine and use scale factors for similar figures to solve problems using proportional reasoning.	SE/TE: <i>Stretching and Shrinking:</i> 4, 5-8, 9-12, 18-19, 20, 22-26, 28-32, 33-39, 41-46, 47-57, 59-63, 75-80, 168 TE: <i>Stretching and Shrinking:</i> 1a, 1b-c, 13a-e, 13f, 27d-f, 40a-g, 58a-f, 84a-g TECH: www.phschool.com
7. Identify the line and rotation symmetries of two-dimensional figures to solve problems.	SE/TE: <i>Stretching and Shrinking:</i> 4, 5-8, 9-12, 18-19, 20, 22-26, 28-32, 33-39, 41-46, 47-57, 59-63, 75-80, 168 <i>Moving Straight Ahead:</i> 3, 4, 9-13, 15-23, 24-33, 44-51, 60-62, 64-69, 70-78, 84-90 TE: <i>Stretching and Shrinking:</i> 1a, 1b-c, 13a-e, 13f, 27d-f, 40a-g, 58a-f, 84a-g <i>Moving Straight Ahead:</i> 1c, 14f, 34a-j, 63j, 79a-j TECH: www.phschool.com

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8. Perform translations, reflections, rotations and dilations of two-dimensional figures using a variety of methods (paper folding, tracing, graph paper).	<p>SE/TE: <i>Accentuate the Negative:</i> 67-76, 77-81, 136-137 <i>Stretching and Shrinking:</i> 161-162 <i>Variables and Patterns:</i> 49-50, 51-53, 61-63, 64-67 <i>Filling and Wrapping:</i> 4, 7-9, 10-13, 27-28, 41-44, 135 <i>Moving Straight Ahead:</i> 4, 35-43, 64-69, 70-78, 157-158</p> <p>TE: <i>Accentuate the Negative:</i> 82a-g <i>Stretching and Shrinking:</i> 1g <i>Variables and Patterns:</i> 60j, 63b-c <i>Filling and Wrapping:</i> 1c, 4b, 23h, 36a-e <i>Moving Straight Ahead:</i> 1k, 34r, 52a-k, 63j</p> <p>TECH: www.phschool.com</p>
9. Draw representations of three-dimensional geometric objects from different views.	<p>SE/TE: <i>Filling and Wrapping:</i> 5-6, 7-9, 10-13, 15-18, 19-22, 24-28, 29-35, 37-40, 41-44, 46-50, 51-55, 57-60, 61-66</p> <p>TE: <i>Filling and Wrapping:</i> 1b, 1d, 1g-h, 4b, 14a-b, 14c-f, 14j, 23a-e, 36h, 451-g, 45j, 56c-e, 56h, 67a-f, 67h</p> <p>TECH: www.phschool.com</p>

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PATTERNS, FUNCTIONS AND ALGEBRA STANDARD	
Students use patterns, relations and functions to model, represent and analyze problem situations that involve variable quantities. Students analyze, model and solve problems using various representations such as table, graphs and equations.	
1. Represent and analyze patterns, rules and functions with words, tables, graphs and simple variable expressions.	SE/TE: <i>Accentuate the Negative:</i> 43, 56-57 <i>Stretching and Shrinking:</i> 28-32 <i>Variables and Patterns:</i> 7, 18-25, 36-41, 42-47, 54-59 <i>Filling and Wrapping:</i> 5-6, 7-9, 10-13, 27-28, 39-40, 41-44 <i>Moving Straight Ahead:</i> 4, 5-8, 9-13, 15-23, 39, 40, 69 TE: <i>Accentuate the Negative:</i> 52k-l, 66c-e <i>Stretching and Shrinking:</i> 27n, 40a-g <i>Variables and Patterns:</i> 1b-c, 1f, 35a-f, 48a-f <i>Filling and Wrapping:</i> 1b, 1c, 4b, 14a-f, 23h, 36d-e, 45d-g <i>Moving Straight Ahead:</i> 4b, 14a-c, 34a-j, 52b, 52f TECH: www.phschool.com

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<p>2. Generalize patterns by describing in words how to find the next term.</p>	<p>SE/TE: <i>Accentuate the Negative:</i> 43, 56-57 <i>Stretching and Shrinking:</i> 28-32 <i>Variables and Patterns:</i> 7, 18-25, 36-41, 42-47, 54-59 <i>Filling and Wrapping:</i> 5-6, 7-9, 10-13, 27-28, 39-40, 41-44, 53-58 <i>Moving Straight Ahead:</i> 4, 5-8, 9-13, 15-23, 39, 40, 69</p> <p>TE: <i>Accentuate the Negative:</i> 52k-l, 66c-e <i>Stretching and Shrinking:</i> 27n, 40a-g <i>Variables and Patterns:</i> 1b-c, 1f, 35a-f, 48a-f <i>Filling and Wrapping:</i> 1b, 1c, 4b, 14a-f, 23h, 36d-e, 45d-g, 52r <i>Moving Straight Ahead:</i> 4b, 14a-c, 34a-j, 52b, 52f</p> <p>TECH: www.phschool.com</p>

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3. Recognize and explain when numerical patterns are linear or nonlinear progressions.	<p>SE/TE: <i>Accentuate the Negative:</i> 43, 56-57 <i>Stretching and Shrinking:</i> 28-32 <i>Variables and Patterns:</i> 7, 18-25, 36-41, 42-47, 54-59 <i>Filling and Wrapping:</i> 5-6, 7-9, 10-13, 27-28, 39-40, 41-44 <i>Moving Straight Ahead:</i> 4, 5-8, 9-13, 15-23, 39, 40, 69</p> <p>TE: <i>Accentuate the Negative:</i> 52k-l, 66c-e <i>Stretching and Shrinking:</i> 27n, 40a-g <i>Variables and Patterns:</i> 1b-c, 1f, 35a-f, 48a-f <i>Filling and Wrapping:</i> 1b, 1c, 4b, 14a-f, 23h, 36d-e, 45d-g <i>Moving Straight Ahead:</i> 4b, 14a-c, 14f, 34a-j, 52b, 52f</p> <p>TECH: www.phschool.com</p>
4. Create visual representations of equation-solving processes that model the use of inverse operations.	<p>SE/TE: <i>Moving Straight Ahead:</i> 15-23, 24-33, 41, 44-51, 53-58, 60-62, 70-78, 80-83, 84-90 <i>The Data Around Us:</i> 5-8, 9-10, 51-54, 55-59, 61-63, 64-68</p> <p>TE: <i>Moving Straight Ahead:</i> 1f, 1g, 14f, 34a-j, 52r, 63a-h, 79f, 79n, 91a-g <i>The Data Around Us:</i> 4b, 11a-d, 50h, 60a-f, 60h, 69a-d</p> <p>TECH: www.phschool.com</p>

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5. Represent linear equations by plotting points in the coordinate plane.	SE/TE: <i>Accentuate the Negative:</i> 4, 67-70, 72-76, 77-81, 135 <i>Moving Straight Ahead:</i> 15-23, 24-33, 35-43, 44-51, 53-58, 60-62, 70-78, 80-83, 84-90 <i>Variables and Patterns:</i> 7-9, 10-17, 18-25, 26-34, 36-41, 42-47 <i>Stretching and Shrinking:</i> 4, 14-21 TE: <i>Accentuate the Negative:</i> 82a-f <i>Moving Straight Ahead:</i> 1f, 1g, 14f, 34a-j, 34r, 52a-k, 52r, 63a-h, 79f, 91a-g <i>Variables and Patterns:</i> 17b-d, 35a-f, 48a-f <i>Stretching and Shrinking:</i> 13f, 27a-j TECH: www.phschool.com

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OHIO GRADE LEVEL INDICATORS	PAGES WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
6. Represent inequalities on a number line or a coordinate plane.	<p>SE/TE: <i>Accentuate the Negative:</i> 4, 5-11, 12-16, 19-21, 26, 29, 40-42, 47, 53-55, 67-70, 72-76, 77-81, 135</p> <p><i>Moving Straight Ahead:</i> 15-23, 24-33, 35-43, 44-51, 53-58, 60-62, 70-78, 80-83, 84-90</p> <p><i>Variables and Patterns:</i> 7-9, 10-17, 18-25, 26-34, 36-41, 42-47</p> <p><i>Stretching and Shrinking:</i> 4, 14-21</p> <p>TE: <i>Accentuate the Negative:</i> 4b, 17a-e, 17h, 33a-d, 33n, 52e-l, 66a-c, 82a-f</p> <p><i>Moving Straight Ahead:</i> 1f, 1g, 14f, 34a-j, 34r, 52a-k, 52r, 63a-h, 79f, 91a-g</p> <p><i>Variables and Patterns:</i> 17b-d, 35a-f, 48a-f</p> <p><i>Stretching and Shrinking:</i> 13f, 27a-j</p> <p>TECH: www.phschool.com</p>
7. Justify that two forms of an algebraic expression are equivalent, and recognize when an expression is simplified.	<p>SE/TE: <i>Stretching and Shrinking:</i> 18-20, 59-63</p> <p>TE: <i>Stretching and Shrinking:</i> 1c, 27a-j, 74a-b</p> <p>TECH: www.phschool.com</p>

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8. Use formulas in problem-solving situations.	<p>TE:</p> <p>Comparing and Scaling: 1c, 4b, 15f, 25f, 36h, 1j, 64l</p> <p>Accentuate the Negative: 1f, 4b, 17h, 33n, 52p, 66l</p> <p>Stretching and Shrinking: 1d, 4b, 13f, 27n, 40f, 58j, 74l</p> <p>Variables and Patterns: 1f, 4b, 17f, 35f, 48n, 60j</p> <p>The Data Around Us: 1b, 4b, 11f, 22f, 37j, 50h, 60h</p> <p>What Do You Expect?: 1f, 4b, 21n, 31j, 40d, 49n, 58l, 68n</p> <p>Filling and Wrapping: 1f, 4b, 14j, 23h, 36h, 45j, 56h, 67h</p> <p>Moving Straight Ahead: 1h, 4b, 14f, 34r, 52r, 63j, 79n</p> <p>TECH: www.phschool.com</p>

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<p>9. Recognize a variety of uses for variables such as placeholder for an unknown quantity in an equation, generalization for a pattern, formula.</p>	<p>SE/TE: <i>Accentuate the Negative:</i> 43, 56-57 <i>Stretching and Shrinking:</i> 28-32 <i>Variables and Patterns:</i> 3, 7, 8-9, 10-17, 18-25, 36-41, 42-47, 49-53, 54-59 <i>Filling and Wrapping:</i> 5-6, 7-9, 10-13, 27-28, 39-40, 41-44 <i>Moving Straight Ahead:</i> 4, 5-8, 9-13, 15-23, 39, 40, 69</p> <p>TE: <i>Accentuate the Negative:</i> 52k-l, 66c-e <i>Stretching and Shrinking:</i> 27n, 40a-g <i>Variables and Patterns:</i> 1b-c, 1f, 35a-f, 48a-f, 48n, 60a-e <i>Filling and Wrapping:</i> 1b, 1c, 4b, 14a-f, 23h, 36d-e, 45d-g <i>Moving Straight Ahead:</i> 4b, 14a-c, 34a-j, 52b, 52f</p> <p>TECH: www.phschool.com</p>

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OHIO GRADE LEVEL INDICATORS	PAGES WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
10. Analyze linear and simple nonlinear relationships to explain how a change in one variable results in the change of another.	<p>SE/TE: <i>Accentuate the Negative:</i> 43, 56-57 <i>Stretching and Shrinking:</i> 28-32 <i>Variables and Patterns:</i> 3, 7, 8-9, 10-17, 18-25, 36-41, 42-47, 49-53, 54-59 <i>Filling and Wrapping:</i> 5-6, 7-9, 10-13, 27-28, 39-40, 41-44 <i>Moving Straight Ahead:</i> 4, 5-8, 9-13, 15-23, 39, 40, 69</p> <p>TE: <i>Accentuate the Negative:</i> 52k-l, 66c-e <i>Stretching and Shrinking:</i> 27n, 40a-g <i>Variables and Patterns:</i> 1b-c, 1f, 35a-f, 48a-f, 48n, 60a-e <i>Filling and Wrapping:</i> 1b, 1c, 4b, 14a-f, 23h, 36d-e, 45d-g <i>Moving Straight Ahead:</i> 4b, 14a-c, 34a-j, 52b, 52f</p> <p>TECH: www.phschool.com</p>
11. Use graphing calculators to analyze change.	<p>SE/TE: <i>Variables and Patterns:</i> 4, 36-40, 48-53, 61-63, 64-67 <i>Moving Straight Ahead:</i> 4, 35-43</p> <p>TE: <i>Variables and Patterns:</i> 1f, 1h-l, 48n, 60a-e, 60j, 63b-c, 68a-d <i>Moving Straight Ahead:</i> 1k, 34r, 52a-k</p> <p>TECH: www.phschool.com</p>

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DATA ANALYSIS AND PROBABILITY STANDARD	
Students pose questions and collect, organize, represent, interpret and analyze data to answer those questions. Students develop and evaluate inferences, predictions and arguments that are based on data.	
1. Read, create and interpret box-and-whisker plots, stem-and-leaf plots, and other types of graphs, when appropriate.	SE/TE: <i>Comparing and Scaling:</i> 48-49, 77-78 <i>Accentuate the Negative:</i> 67-76, 77-81 <i>Variables and Patterns:</i> 7-9, 10-17, 18-25, 26-34, 36-41, 42-47, 49-53, 54-59, 61-63, 64-67 <i>Moving Straight Ahead:</i> 9-13, 15-23, 24-33, 44-51, 80-83, 84-90 TE: <i>Accentuate the Negative:</i> 82a-g <i>Variables and Patterns:</i> 1c-d, 1e, 17a-e, 35a-f, 48a-f, 60a-e, 60j, 63a-d TECH: www.phschool.com
2. Analyze how decisions about graphing affect the graphical representation.	SE/TE: <i>Comparing and Scaling:</i> 48-49, 77-78 <i>Accentuate the Negative:</i> 67-76, 77-81 <i>Variables and Patterns:</i> 7-9, 10-17, 18-25, 26-34, 36-41, 42-47, 49-53, 54-59, 61-63, 64-67 <i>Moving Straight Ahead:</i> 9-13, 15-23, 24-33, 44-51, 80-83, 84-90 TE: <i>Accentuate the Negative:</i> 82a-g <i>Variables and Patterns:</i> 1c-d, 1e, 17a-e, 35a-f, 48a-f, 60a-e, 60j, 63a-d TECH: www.phschool.com

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<p>3. Analyze a set of data by using and comparing combinations of measures of center (mean, mode, median) and measures of spread (range, quartile, interquartile range), and describe how the inclusion or exclusion of outliers affects those measures.</p>	<p>SE/TE: <i>The Data Around Us:</i> 4, 5-8, 9-11, 12-18, 19-21, 29-30, 61-63, 64-68 <i>Accentuate the Negative:</i> 68-70 <i>Stretching and Shrinking:</i> 37, 41, 59-63 <i>Variables and Patterns:</i> 8 <i>Moving Straight Ahead:</i> 15-23, 24-33, 37-38, 39-40</p> <p>TE: <i>The Data Around Us:</i> 1b, 4b, 11a-d, 11f, 22a-e, 37f-g, 60h, 69a-d <i>Accentuate the Negative:</i> 82a-c <i>Stretching and Shrinking:</i> 74a-h <i>Moving Straight Ahead:</i> 1c-e, 14f, 34a-j, 52c-d</p> <p>TECH: www.phschool.com</p>

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4. Construct opposing arguments based on analysis of the same data, using different graphical representations.	<p>SE/TE: Comparing and Scaling: 48-49, 77-78</p> <p>Accentuate the Negative: 67-76, 77-81</p> <p>Variables and Patterns: 7-9, 10-17, 18-25, 26-34, 36-41, 42-47, 49-53, 54-59, 61-63, 64-67</p> <p>Moving Straight Ahead: 9-13, 15-23, 24-33, 37-38, 39-40, 44-51, 80-83, 84-90</p> <p>The Data Around Us: 4, 5-8, 9-11, 12-18, 19-21, 29-30, 61-63, 64-68</p> <p>Stretching and Shrinking: 37, 41, 59-63</p> <p>TE: Accentuate the Negative: 82a-g</p> <p>Variables and Patterns: 1c-d, 1e, 17a-e, 35a-f, 48a-f, 60a-e, 60j, 63a-d</p> <p>The Data Around Us: 1b, 4b, 11a-d, 11f, 22a-e, 37f-g, 60h, 69a-d</p> <p>Stretching and Shrinking: 74a-h</p> <p>TECH: www.phschool.com</p>
5. Compare data from two or more samples to determine how sample selection can influence results.	<p>SE/TE: The Data Around Us: 4, 5-8, 9-11, 12-18, 19-21, 23-30, 61-63, 64-68</p> <p>TE: The Data Around Us: 4b, 11a-d, 11f, 22a-e, 60h, 69a-d</p> <p>TECH: www.phschool.com</p>

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OHIO GRADE LEVEL INDICATORS	PAGES WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
6. Identify misuses of statistical data in articles, advertisements, and other media.	<p>SE/TE: <i>Accentuate the Negative:</i> 43, 56-57 <i>Stretching and Shrinking:</i> 28-32 <i>Variables and Patterns:</i> 7, 18-25, 36-41, 42-47, 54-59 <i>Filling and Wrapping:</i> 5-6, 7-9, 10-13, 27-28, 39-40, 41-44 <i>Moving Straight Ahead:</i> 4, 5-8, 9-13, 15-23, 39, 40, 69 <i>The Data Around Us:</i> 4, 5-8, 9-11, 12-18, 19-21, 23-30, 51-54, 55-59, 61-63, 64-68</p> <p>TE: <i>Accentuate the Negative:</i> 52k-l, 66c-e <i>Stretching and Shrinking:</i> 27n, 40a-g <i>Variables and Patterns:</i> 1b-c, 1f, 35a-f, 48a-f <i>Filling and Wrapping:</i> 1b, 1c, 4b, 14a-f, 23h, 36d-e, 45d-g <i>Moving Straight Ahead:</i> 4b, 14a-c, 34a-j, 52b, 52f <i>The Data Around Us:</i> 4b, 11a-d, 11f, 22a-e, 50h, 60h, 69a-d</p> <p>TECH: www.phschool.com</p>

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7. Compute probabilities of compound events.	SE/TE: <i>What Do You Expect?:</i> 4, 5, 6-9, 14, 18-19, 22-23, 32-35, 41-44, 50-52, 69-73, 160 TE: <i>What Do You Expect?:</i> 1a-e, 21a-f, 21n, 31a-g, 31j, 40a-d, 49a-j, 49n, 58a-h, 68n, 78a-e TECH: www.phschool.com
8. Make predictions based on theoretical probabilities, design and conduct an experiment to test the predictions, compare actual results to predicted results, and explain differences.	SE/TE: <i>What Do You Expect?:</i> 4, 5, 6-9, 14, 18-19, 22-23, 32-35, 41-44, 50-52, 69-73, 160 <i>Variables and Patterns:</i> 4, 36-40, 41, 49-53, 70 <i>The Data Around Us:</i> 51-54, 55-59, 61-63, 64-68 <i>Moving Straight Ahead:</i> 4, 5-8, 9-13, 15-23, 24-33 TE: <i>What Do You Expect?:</i> 1a-e, 21a-f, 21n, 31a-g, 31j, 40a-d, 49a-j, 49n, 58a-h, 68n, 78a-e <i>The Data Around Us:</i> 50h, 60a-f, 60h, 60a-d <i>Moving Straight Ahead:</i> 4b, 14a-c, 34a-j TECH: www.phschool.com

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