

SAXON PUBLISHERS *Math 8/7: An Incremental Development* ©2004

correlated to

South Dakota Mathematics Standards

Seventh Grade

1

Seventh Grade Algebra

Indicator 1: Use procedures to transform algebraic expressions.

(Application)

7.A.1.1. Students are able to write and evaluate algebraic expressions using the set of whole numbers.

- Use replacement values for variables.

Recognize that a variable is used to represent real-life situations

Incremental Instruction

Lessons: 1, 3, 11, 12, 13, 14, 22, 28, 46, 54, 65, INV. 7, 71, 72, 79, 92, 93, 101

Continual Practice and Review

Lesson Practice: 1, 3, 11, 12, 13, 14, 22, 28, 46, 54, 65, INV. 7, 71, 72, 79, 92, 93, 101

Mixed Practice: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

- Use order of operations.

Apply order of operations to solve problems

Incremental Instruction

Lessons: 52, INV. 7, 85

Continual Practice and Review

Warm Up: 13, 14, 15, 92, 93, 95, 97, 99

Lesson Practice: 52, INV. 7, 85

Mixed Practice: 2, 3, 7, 8, 11, 12, 13, 14, 23, 27, 28, 42, 46, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

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Seventh Grade

2

(Knowledge)

7.A.1.2. Students are able to identify associative, commutative, distributive, and identity properties involving algebraic expressions.

- Use the associative, commutative, distributive, and identity properties.

Apply the associative property of numbers to solve problems

Incremental Instruction

Lessons: 2, 64, 87, 91, 117

Continual Practice and Review

Lesson Practice: 2, 64, 87, 91, 117

Mixed Practice: 3, 4, 10, 17, 41, 54, 91

Apply the commutative property of numbers to solve problems

Incremental Instruction

Lessons: 2, 64, 87, 91, 117

Continual Practice and Review

Lesson Practice: 2, 64, 87, 91, 117

Mixed Practice: 3, 5, 6, 24, 50, 91

Apply the distributive property of numbers to solve problems

Incremental Instruction

Lessons: 41, 96

Continual Practice and Review

Lesson Practice: 41, 96

Mixed Practice: 41, 42, 44, 46, 50, 54, 65, 67, 91, 96, 97, 99, 100, 101, 102, 103, 105, 106, 117, 119

Apply the identity property of numbers to solve problems

Incremental Instruction

Lesson: 2

Continual Practice and Review

Lesson Practice: 2

Mixed Practice: 2, 3, 5, 7, 12, 14, 18, 20, 33, 40, 50, 54

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Seventh Grade

3

Indicator 2: Use a variety of algebraic concepts and methods to solve equations and inequalities.

(Application)

7.A.2.1. Students are able to write and solve one-step 1st degree equations, with one variable,

using the set of integers and inequalities, with one variable, using the set of whole numbers.

- Addition property of equality.

Apply the additive and multiplicative properties of equations to solve problems

Incremental Instruction

Lessons: 3, 11, 12, 28, INV. 7, 93, 102, 106

Continual Practice and Review

Warm Up: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38,
39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54,
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76, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 89, 90, 91, 92, 93,
94, 95, 96, 97, 98, 99, 100, 102, 103, 104, 106, 107, 108,
109, 110, 111, 112, 113, 114, 115, 117, 118, 119, 120

Lesson Practice: 3, 11, 12, 28, INV. 7, 93, 102, 106

Mixed Practice: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23,
24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39,
40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55,
56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71,
72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87,
88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102,
103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114,
115, 116, 117, 118, 119, 120

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4

• Multiplication property of equality.

**Apply the additive and multiplicative properties of equations to solve
problems**

Incremental Instruction

Lessons: 3, 11, 12, 28, INV. 7, 93, 102, 106

Continual Practice and Review

Warm Up: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38,
39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54,
55, 56, 57, 58, 62, 63, 64, 65, 66, 68, 69, 70, 72, 73, 74, 75,
76, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 89, 90, 91, 92, 93,
94, 95, 96, 97, 98, 99, 100, 102, 103, 104, 106, 107, 108,
109, 110, 111, 112, 113, 114, 115, 117, 118, 119, 120

Lesson Practice: 3, 11, 12, 28, INV. 7, 93, 102, 106

Mixed Practice: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23,
24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39,
40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55,
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72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87,
88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102,
103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114,
115, 116, 117, 118, 119, 120

• Inverse operations.

Use inverses in algebraic settings

Incremental Instruction

Lessons: 2, 4, 9, 25, 26, INV. 7, 90

Continual Practice and Review

Lesson Practice: 2, 4, 9, 25, 26, INV. 7, 90

Mixed Practice: 2, 9, 10, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 25, 26, 65, 101, 119

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5

Apply the inverse property of numbers to solve problems

Incremental Instruction

Lessons: 2, 4, 9, 25, 26, 90

Continual Practice and Review

Warm Up: 75

Lesson Practice: 2, 4, 9, 25, 26, 90

Mixed Practice: 2, 9, 10, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 25, 26, 65, 101, 119

Indicator 3: Interpret and develop mathematical models.

(Application)

7.A.3.1. Students are able to identify and graph ordered pairs on a coordinate plane and inequalities on a number line.

- Quadrants I-IV

Identify each quadrant and the characteristics of points in each

Incremental Instruction

Lesson: INV. 3

Continual Practice and Review

Lesson Practice: INV. 3

Mixed Practice: 37, 100

- Use a scatterplot to draw an approximate line of best fit in a coordinate plane.

This objective falls outside the scope of Saxon Publishers *Math 8/7: An Incremental Development*.

(Application)

7.A.3.2. Students are able to model and solve multi-step problems involving rates.

- Better buy

This objective falls outside the scope of Saxon Publishers *Math 8/7: An Incremental Development*.

- Unit rates

This objective falls outside the scope of Saxon Publishers *Math 8/7: An Incremental Development*.

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Seventh Grade

6

Indicator 4: Describe and use properties and behaviors of relations, functions, and inverses.

(Application)

7.A.4.1. Students are able to recognize one-step patterns using tables, graphs, and models and

create one-step algebraic expressions representing the pattern.

- Identify arithmetic and geometric sequences.

Develop an understanding of, describe, and apply sequences

Incremental Instruction

Lesson: 2

Continual Practice and Review

Warm Up: 1, 2, 3, 7, 9, 24, 31, 41

Lesson Practice: 2

Mixed Practice: 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 16, 19, 20, 22, 23, 24, 26, 31, 33, 39, 43, 44, 56, 58, 86

Test Day Activities: 1, 3, 4

- Extend arithmetic and geometric sequences.

Develop an understanding of, describe, and apply sequences

Incremental Instruction

Lesson: 2

Continual Practice and Review

Warm Up: 1, 2, 3, 7, 9, 24, 31, 41

Lesson Practice: 2

Mixed Practice: 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 16, 19, 20, 22, 23, 24, 26, 31, 33, 39, 43, 44, 56, 58, 86

Test Day Activities: 1, 3, 4

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Seventh Grade

7

Seventh Grade Geometry

Indicator 1: Use deductive and inductive reasoning to recognize and apply properties of geometric figures.

(Application)

7.G.1.1. Students are able to identify, describe, and classify polygons having up to 10 sides.

- Relationships among triangles.

Reason informally about properties (including lines of symmetry) of rectangles, squares, triangles (named by both lengths of sides and angles), and rectangular prisms

Incremental Instruction

Lessons: 18, 19, INV. 2, INV. 3, 37, 40, 58, INV. 6, 62, 67, 70, 75,

INV. 8, 88, 95, 105, INV. 11, 112, 113, 115, 118, 120,

INV. 12

Continual Practice and Review

Lesson Practice: 18, 19, INV. 2, INV. 3, 37, 40, 58, INV. 6, 62, 67, 70, 75, INV. 8, 88, 95, 105, INV. 11, 112, 113, 115, 118, 120, INV. 12

Mixed Practice: 10, 18, 19, 20, 29, 45, 58, 60, 61, 62, 63, 65, 67, 68, 69, 70, 71, 73, 74, 76, 77, 81, 85, 89, 120

- Relationships among quadrilaterals.

This objective falls outside the scope of Saxon Publishers *Math 8/7: An Incremental Development*.

- Sketch two-dimensional figures.

Draw and construct two-dimensional figures

Incremental Instruction

Lessons: 19, 58, 62, 99, 107, 118

Continual Practice and Review

Lesson Practice: 19, 58, 62, 99, 107, 118

Mixed Practice: 12, 18, 19, 21, 22, 23, 25, 26, 28, 31, 32, 33, 34, 35, 36, 38, 40, 42, 44, 45, 46, 50, 51, 52, 54, 56, 58, 60, 61, 62, 63, 64, 65, 66, 68, 71, 73, 80, 81, 82, 83, 85, 88, 89, 95, 96, 98, 99, 105, 110, 111, 112, 113, 117

Test Day Activity: 21

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Seventh Grade

8

(Knowledge)

7.G.1.2. Students are able to identify and describe elements of geometric figures.

- Altitude

This objective falls outside the scope of Saxon Publishers *Math 8/7: An Incremental Development*.

- Midpoint

This objective is addressed in Saxon Publishers *Algebra 1/2: An Incremental Development*.

- Bisector

This objective falls outside the scope of Saxon Publishers *Math 8/7: An Incremental Development*.

- Radius

Measure, and solve problems, using diameter, radius, chord, and circumference

Incremental Instruction

Lessons: INV. 2, INV. 5, 66, INV. 8, 104

Continual Practice and Review

Warm Up: 21, 22, 23, 27, 29

Lesson Practice: INV. 2, INV. 5, 66, INV. 8, 104

Mixed Practice: 24, 29, 32, 34, 43, 56, 58, 64, 65, 66, 67, 68, 69, 70, 71, 73, 74, 75, 77, 78, 79, 82, 83, 84, 85, 86, 87, 88, 89, 91, 92, 93, 95, 96, 99, 100, 101, 102, 103, 104, 107, 109, 111, 112,

119, 120

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Seventh Grade

9

• Diameter

Measure, and solve problems, using diameter, radius, chord, and circumference

Incremental Instruction

Lessons: INV. 2, INV. 5, 66, INV. 8, 104

Continual Practice and Review

Warm Up: 21, 22, 23, 27, 29

Lesson Practice: INV. 2, INV. 5, 66, INV. 8, 104

Mixed Practice: 24, 29, 32, 34, 43, 56, 58, 64, 65, 66, 67, 68, 69, 70, 71, 73, 74, 75, 77, 78, 79, 82, 83, 84, 85, 86, 87, 88, 89, 91, 92, 93, 95, 96, 99, 100, 101, 102, 103, 104, 107, 109, 111, 112,

119, 120

• Chord

Measure, and solve problems, using diameter, radius, chord, and circumference

Incremental Instruction

Lessons: INV. 2, INV. 5, 66, INV. 8, 104

Continual Practice and Review

Warm Up: 21, 22, 23, 27, 29

Lesson Practice: INV. 2, INV. 5, 66, INV. 8, 104

Mixed Practice: 24, 29, 32, 34, 43, 56, 58, 64, 65, 66, 67, 68, 69, 70, 71, 73, 74, 75, 77, 78, 79, 82, 83, 84, 85, 86, 87, 88, 89, 91, 92, 93, 95, 96, 99, 100, 101, 102, 103, 104, 107, 109, 111, 112,

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10

Indicator 2: Use properties of geometric figures to solve problems from a variety of perspectives.

(Application)

7.G.2.1. Students are able to demonstrate ways that shapes can be transformed.

• Translation

Draw and discuss translations

Incremental Instruction

Lessons: INV. 6, 80

Continual Practice and Review

Warm Up: 68, 107

Lesson Practice: INV. 6, 80

Mixed Practice: 82, 88, 96, 97, 111

- Rotation

Draw and discuss rotations

Incremental Instruction

Lessons: INV. 6, 80

Continual Practice and Review

Warm Up: 4, 14, 17, 24, 27, 29, 34, 37, 39

Lesson Practice: INV. 6, 80

Mixed Practice: 18, 74, 76, 83, 86, 98, 110, 116

- Reflection

Draw and discuss reflections

Incremental Instruction

Lessons: 58, INV. 6, 80

Continual Practice and Review

Warm Up: 14

Lesson Practice: 58, INV. 6, 80

Mixed Practice: 80, 81, 85, 95, 117

- Tessellation

This objective is addressed in Saxon Publishers *Algebra 1/2: An Incremental Development*.

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Seventh Grade

11

- Write and solve proportions that express the relationships between corresponding parts of similar quadrilaterals and triangles.

Identify similarity and construct similar two- and three-dimensional shapes

Incremental Instruction

Lessons: 18, 97, INV. 11

Continual Practice and Review

Lesson Practice: 18, 97, INV. 11

Mixed Practice: 18, 21, 54, 93, 96, 97, 98, 99, 100, 101, 103, 104, 107, 109, 110, 111, 112, 113, 116, 117, 118, 119, 120

Test Day Activity: 21

Seventh Grade Measurement

Indicator 1: Apply measurement concepts in practical applications.

(Comprehension)

7.M.1.1. Students are able to select, use, and convert appropriate units of measurement for a

situation including capacity and angle measurement.

- Measure angles $\circ 180 \leq$ to the nearest degree.

Measure angles using customary and metric units

Incremental Instruction

Lessons: 7, 17, INV. 2, INV. 3, 40, INV. 5, 61, INV. 8, 89, 96, INV.

12

Continual Practice and Review

Lesson Practice: 7, 17, INV. 2, INV. 3, 40, INV. 5, 61, INV. 8, 89, 96, INV. 12

Mixed Practice: 23, 33, 56, 71, 86, 103, 119

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Seventh Grade

12

• Measure length, capacity, and mass.

Measure capacity using customary and metric units

Incremental Instruction

Lessons: 16, 32, 70, 95, INV. 11, 113, 115

Continual Practice and Review

Warm Up: 57, 73, 79, 87, 89, 90, 99, 105, 115, 120

Lesson Practice: 16, 32, 70, 95, INV. 11, 113, 115

Mixed Practice: 26, 35, 38, 65, 68, 70, 71, 74, 75, 79, 80, 82, 83, 85, 89, 94, 95, 96, 97, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 117, 118, 119

Measure length using customary and metric units

Incremental Instruction

Lessons: 8, 15, 16, 34, 51, 56, 98

Continual Practice and Review

Warm Up: 54, 55, 61, 74, 77, 80, 82, 84, 88, 108

Lesson Practice: 8, 15, 16, 34, 51, 56, 98

Mixed Practice: 8, 9, 11, 16, 17, 18, 19, 21, 23, 25, 26, 33, 34, 35, 36, 37, 38, 40, 42, 43, 45, 47, 49, 54, 56, 69, 70, 78, 81, 88, 91, 94, 98, 116, 117, 119

Test Day Activities: 6, 16, 18, 21

Measure weight/mass using customary and metric units

Incremental Instruction

Lessons: 16, 115

Continual Practice and Review

Warm Up: 35, 37, 39, 42, 52, 58, 72, 78, 83, 87, 98, 118

Lesson Practice: 16, 115

Mixed Practice: 23, 27, 29, 31, 32, 35, 39, 46, 48, 49, 50, 51, 56, 57, 61, 70, 74, 75, 90, 91, 94, 95, 99, 100, 104, 105, 106, 114, 116

Test Day Activity: 7

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Seventh Grade

13

• Convert within the Metric system (kilo- thru milli-).

Convert measurements within the same system

Incremental Instruction

Lessons: 16, 32, 49, 50, 70, 88, 98

Continual Practice and Review

Warm Up: 22, 35, 39, 42, 51, 52, 53, 70, 71, 72, 73, 74, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 88, 92, 98, 102, 106, 108, 109, 110, 111, 113, 115, 116, 118, 119

Lesson Practice: 16, 32, 49, 50, 70, 88, 98

Mixed Practice: 17, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29, 30, 32, 33, 34, 35, 36, 38, 41, 43, 44, 45, 46, 47, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 65, 66, 67, 68, 70, 72, 73, 74, 75, 76, 77, 78, 80, 82, 83, 84, 85, 86, 87, 88, 89, 90, 92, 93, 94, 95, 96, 97, 99, 101, 102, 108, 109, 112, 113, 114, 117, 120

• Convert within the U.S. Customary system (weight, length, capacity).

Convert measurements within the same system

Incremental Instruction

Lessons: 16, 32, 49, 50, 70, 88, 98

Continual Practice and Review

Warm Up: 22, 35, 39, 42, 51, 52, 53, 70, 71, 72, 73, 74, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 88, 92, 98, 102, 106, 108, 109, 110, 111, 113, 115, 116, 118, 119

Lesson Practice: 16, 32, 49, 50, 70, 88, 98

Mixed Practice: 17, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29, 30, 32, 33, 34, 35, 36, 38, 41, 43, 44, 45, 46, 47, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 65, 66, 67, 68, 70, 72, 73, 74, 75, 76, 77, 78, 80, 82, 83, 84, 85, 86, 87, 88, 89, 90, 92, 93, 94, 95, 96, 97, 99, 101, 102, 108, 109, 112, 113, 114, 117, 120

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14

(Comprehension)

7.M.1.2. Students, when given the formulas, are able to find circumference, perimeter, and

area of circles, parallelograms, triangles, and trapezoids (whole number measurements).

• Use appropriate units of measure.

Understand measurable attributes of objects and the units, systems, and processes of measurement

Incremental Instruction

Lessons: 8, 11, 12, 16, 17, 19, 20, INV. 2, INV. 3, 32, 37, 40, 41, 49, 50, 54, 55, 56, 61, 65, 66, 67, 70, 75, 79, INV. 8, 82, 88, 89, 95, 96, 97, 98, 99, 104, 105, 106, 108, INV. 11, 112, 113, 115, 118

Continual Practice and Review

Warm Up: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35,

36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51,
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68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83,
84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99,
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111,
112, 113, 114, 115, 116, 117, 118, 119, 120

Lesson Practice: 8, 11, 12, 16, 17, 19, 20, INV. 2, INV. 3, 32, 37, 40, 41, 49,
50, 54, 55, 56, 61, 65, 66, 67, 70, 75, 79, INV. 8, 82, 88,
89, 95, 96, 97, 98, 99, 104, 105, 106, 108, INV. 11, 112,
113, 115, 118

Mixed Practice: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35,
36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51,
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84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99,
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111,
112, 113, 114, 115, 116, 117, 118, 119, 120

Test Day Activities: 6, 7, 16, 18, 22

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15

• Estimate the area of irregular shapes.

Estimate measures of area

Continual Practice and Review

Mixed Practice: 118

Test Day Activity: 16

Find the area of complex shapes by dividing them into basic shapes

Incremental Instruction

Lessons: 75, 82, 104

Continual Practice and Review

Lesson Practice: 75, 82, 104

Mixed Practice: 20, 26, 27, 30, 32, 35, 37, 38, 39, 41, 42, 46, 49, 50, 51, 52,
53, 54, 57, 59, 60, 64, 66, 69, 71, 72, 77, 84, 87, 93, 95,
101, 104, 106, 108, 115

Seventh Grade Number Sense

Indicator 1: Analyze the structural characteristics of the real number system and its
various

subsystems. Analyze the concept of value, magnitude, and relative magnitude of real
numbers.

(Comprehension)

7.N.1.1. Students are able to represent numbers in a variety of forms by describing,
ordering,

and comparing integers, decimals, percents, and fractions.

- Describe and compare numbers using ratios including appropriate notation, e.g., $a:b$,

b

a , a to b .

Demonstrate the meaning of ratio in different contexts

Incremental Instruction

Lessons: 36, 50, 54, 65, 72, 81, 98

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Continual Practice and Review

Warm Up: 21, 30, 32, 41, 43, 45, 47, 50, 54, 57, 59, 61, 63, 65, 67, 69, 77, 79, 83, 87, 97, 109, 115

Lesson Practice: 36, 50, 54, 65, 72, 81, 98

Mixed Practice: 36, 37, 38, 39, 40, 41, 42, 43, 45, 46, 48, 51, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

Solve problems with ratios

Incremental Instruction

Lessons: 36, 50, 54, 65, 72, 81, 98

Continual Practice and Review

Warm Up: 21, 30, 32, 41, 43, 45, 47, 50, 54, 57, 59, 61, 63, 65, 67, 69, 77, 79, 83, 87, 97, 109, 115

Lesson Practice: 36, 50, 54, 65, 72, 81, 98

Mixed Practice: 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

- Scientific notation, calculator notation.

Represent numbers using scientific notation

Incremental Instruction

Lessons: 51, 57, 69, 83, 111

Continual Practice and Review

Warm Up: 55, 57, 59, 61, 63, 64, 65, 69, 76, 77, 79, 83, 85, 86, 87, 88, 90, 91, 93, 94, 95, 96, 97, 98, 100, 101, 102, 103, 104, 107, 108, 109, 110, 112, 114, 116, 117, 118, 120

Lesson Practice: 51, 57, 69, 83, 111

Mixed Practice: 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 77, 78, 79, 80, 81, 82, 83, 84, 85, 87, 88, 89, 91, 92, 93, 94, 96, 97, 98, 99, 101, 102, 104, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

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Investigate and describe concepts of positive exponents, perfect squares, square roots, and for number greater than 10, scientific notation. Calculators will be used to develop exponential patterns.

Incremental Instruction

Lessons: 2, 20, 21, 27, 30, 51, 57, 69, 83, 87, 99, 103, 105, 109, 111, INV. 12

Continual Practice and Review

Warm Up: 33, 34, 35, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 75, 77, 80, 84

Lesson Practice: 2, 20, 21, 27, 30, 51, 57, 69, 83, 87, 99, 103, 105, 109, 111, INV. 12

Mixed Practice: 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

Test Day Activity: 4

• Include percents less than one and greater than 100.

Develop meaning for percents, including percents greater than 100 and less than 1

Incremental Instruction

Lessons: 8, INV. 1, 43, 48, 60, 74, 76, 77, 92, 110, INV. 10

Continual Practice and Review

Warm Up: 65, 66, 67, 68, 70, 71, 72, 74, 75, 77, 78, 79, 82, 83, 86, 87, 92, 94, 95, 96, 97, 99, 100, 101, 102, 103, 105, 107, 108, 110, 112, 113, 114

Lesson Practice: 8, INV. 1, 43, 48, 60, 74, 76, 77, 92, 110, INV. 10

Mixed Practice: 10, 11, 14, 18, 20, 26, 28, 37, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

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• Identify, represent, compare, and order rational numbers and represent them on a number line.

Compare, order, and understand different rational numbers with and without number lines

Incremental Instruction

Lessons: 5, 29, 31, 33, 34, 42, 43, 47, 48, 51, 57, 69, 91, 103

Continual Practice and Review

Warm Up: 54, 56, 59, 61, 63, 82, 101, 105, 107, 110

Lesson Practice: 5, 29, 31, 33, 34, 42, 43, 47, 48, 51, 57, 69, 91, 103

Mixed Practice: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

(Application)

7.N.1.2. Students are able to find and use common multiples and factors of whole numbers.

• Least Common Multiple

Identify multiples and common multiples of whole numbers

Incremental Instruction

Lesson: 27

Continual Practice and Review

Lesson Practice: 27

Mixed Practice: 27, 28, 29, 42, 53, 54, 56

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• Greatest Common Factor

Identify factors and common factors of a set of whole numbers

Incremental Instruction

Lessons: 6, 21, 24, 27, 116

Continual Practice and Review

Warm Up: 46, 66

Lesson Practice: 6, 21, 24, 27, 116

Mixed Practice: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 42, 43, 48, 53, 54, 60, 61, 72, 73,

81, 82, 83, 85, 86, 111, 112, 116, 118, 120

• Divisibility rules (2, 3, 4, 6, 9, 10).

Apply rules to determine divisibility

Incremental Instruction

Lessons: 6, 21, 27, 116

Continual Practice and Review

Warm Up: 46

Mixed Practice: 6, 7, 8, 10, 12, 13, 14, 15, 30

Indicator 2: Apply number operations with real numbers and other number systems.

(Application)

7.N.2.1. Students are able to add, subtract, multiply, and divide integers and positive fractions.

Apply basic operations in problem-solving situations involving whole numbers, decimals, fractions, mixed numbers, and money

Incremental Instruction

Lessons: 1, 2, 3, 8, 9, 10, INV. 1, 11, 12, 13, 14, 15, 16, 22, 23, 24, 25,

26, 27, 28, 29, 30, 35, 36, 37, 39, 41, 44, 45, 46, 49, 50, 53, 54,

55, 56, 60, 61, 65, 66

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Continual Practice and Review

Warm Up: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,

21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37,

38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54,

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89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103,

104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115,

116, 117, 118, 119, 120

Lesson Practice: 1, 2, 3, 8, 9, 10, INV. 1, 11, 12, 13, 14, 15, 16, 22, 23, 24, 25,

26, 27, 28, 29, 30, 35, 36, 37, 39, 41, 44, 45, 46, 49, 50, 53, 54,

55, 56, 60, 61, 65, 66

Mixed Practice: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,

21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37,

38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54,

55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71,

72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88,

89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103,

104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115,

116, 117, 118, 119, 120

Test Day Activities: 5, 20

Indicator 3: Develop conjectures, predictions, or estimations to solve problems and verify or justify the results.

(Application)

7.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive fractions and integers.

- Formulate rules to solve practical problems involving integers (problem solving).

Use a variety of strategies, including proportional reasoning, to estimate, compute, solve and explain solutions to problems involving integers, fractions, decimals, and percents

Incremental Instruction

Lessons: 1, 2, 3, 8, 9, 10, INV. 1, 11, 12, 13, 14, 15, 16, 22, 23, 24, 25, 26, 27, 28, 29, 30, 35, 36, 37, 39, 41, 44, 45, 46, 49, 50, 53, 54, 55, 56, 60, 61, 65, 66

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Continual Practice and Review

Warm Up: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

Lesson Practice: 1, 2, 3, 8, 9, 10, INV. 1, 11, 12, 13, 14, 15, 16, 22, 23, 24, 25, 26, 27, 28, 29, 30, 35, 36, 37, 39, 41, 44, 45, 46, 49, 50, 53, 54, 55, 56, 60, 61, 65, 66

Mixed Practice: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

- Use estimation strategies to make predictions and test the reasonableness of the answer.

Show evidence that estimates are reasonable

Incremental Instruction

Lessons: 29, 100

Continual Practice and Review

Lesson Practice: 29, 100

Mixed Practice: 29, 30, 76

• Explain strategies and justify answers.

Show evidence that computational results are reasonable

Incremental Instruction

Lessons: 3, 12, 13

Continual Practice and Review

Lesson Practice: 3, 12, 13

Mixed Practice: 29, 70

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Justify why an answer is reasonable

Incremental Instruction

Lessons: 97, INV. 11

Continual Practice and Review

Warm Up: 118

Lesson Practice: 97, INV. 11

Mixed Practice: 43, 60, 70, 79, 83

Seventh Grade Statistics & Probability

Indicator 1: Use statistical models to gather, analyze, and display data to draw conclusions.

(Comprehension)

7.S.1.1. Students are able to find the mean, median, mode, and range of a set of data.

Determine and understand the mean of a set of data

Incremental Instruction

Lessons: 28, INV. 4, 55

Continual Practice and Review

Warm Up: 19, 106

Lesson Practice: 28, INV. 4, 55

Mixed Practice: 28, 29, 30, 31, 33, 34, 35, 36, 37, 38, 39, 41, 42, 44, 46, 47, 48,

49, 51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 64, 65, 66, 67, 68, 69,

70, 71, 72, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 86, 87, 88, 89,

91, 92, 94, 95, 96, 97, 98, 100, 104, 106, 110, 114, 117

Test Day Activities: 13, 15

Determine and understand the median of a set of data

Incremental Instruction

Lesson: INV. 4

Continual Practice and Review

Lesson Practice: INV. 4

Mixed Practice: 41, 43, 50, 61, 65, 68, 69, 81, 84, 85, 86, 91, 97, 99, 101, 103,

105, 108, 112, 113

Test Day Activities: 13, 15

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Determine and understand the mode of a set of data

Incremental Instruction

Lesson: INV. 4

Continual Practice and Review

Lesson Practice: INV. 4

Mixed Practice: 68, 69, 77, 81, 84, 85, 86, 97, 99, 101, 103, 107, 108, 112

Test Day Activities: 13, 15

Determine and understand the range of a set of data

Incremental Instruction

Lesson: INV. 4

Continual Practice and Review

Lesson Practice: INV. 4

Mixed Practice: 50, 69, 77, 84, 85, 86, 93, 97, 99, 101

(Application)

7.S.1.2. Students are able to display data, using frequency tables, line plots, stem-and-leaf plots, and make predictions from data displayed in a graph.

Construct tree diagrams or stem-and-leaf plots to organize and represent data when appropriate

Incremental Instruction

Lessons: INV. 4, 94, INV. 10

Continual Practice and Review

Lesson Practice: INV. 4, 94, INV. 10

Mixed Practice: 41, 95

Make predictions from data

Incremental Instruction

Lessons: 38, INV. 4, INV. 5, INV. 11

Continual Practice and Review

Lesson Practice: 38, INV. 4, INV. 5, INV. 11

Test Day Activity: 17

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Indicator 2: Apply the concepts of probability to predict events/outcomes and solve problems.

(Comprehension)

7.S.2.1. Students are able, given a sample space, to find the probability of a specific outcome.

• Simple probability.

Determine the probability and odds of events using fundamental counting

principles

Incremental Instruction

Lessons: 36, 94, INV. 10

Continual Practice and Review

Warm Up: 11, 16, 43, 49, 58

Lesson Practice: 36, 94, INV. 10

Mixed Practice: 94, 96, 97, 101, 112, 114, 115, 116, 117, 118, 119, 120

Understand and apply basic concepts of probability

Incremental Instruction

Lessons: 36, 94, INV. 10

Continual Practice and Review

Warm Up: 11, 16, 43, 49, 58

Lesson Practice: 36, 94, INV. 10

Mixed Practice: 36, 37, 38, 39, 40, 42, 43, 44, 45, 48, 49, 50, 51, 52, 53, 57, 59, 61, 63, 64, 66, 67, 69, 73, 80, 84, 92, 93, 94, 95, 96, 97, 98, 100, 101, 102, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

- Express probability as a ratio, decimal, or percent.

Represent probabilities as decimals

Incremental Instruction

Lessons: 94, INV. 10

Continual Practice and Review

Lesson Practice: 94, INV. 10

Mixed Practice: 117

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Represent probabilities as ratios

Incremental Instruction

Lessons: 36, 94, INV. 10

Continual Practice and Review

Lesson Practice: 36, 94, INV. 10

Mixed Practice: 36, 37, 38, 39, 40, 42, 43, 44, 45, 48, 49, 50, 52, 53, 57, 59, 61, 63, 64, 66, 67, 69, 73, 80, 84, 92, 93, 94, 95, 96, 97, 98, 100, 101, 102, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120