

Place a checkmark or the date when items are completed.

Lesson	Explore	Practice	Notes
1 Number Relationships			
2 Fractions			
3 Order of Operations			
4 Classifying Real Numbers			
5 Plot Real Numbers			
6 Square Roots			
7 Math Vocabulary			
8 Problem Solving			

### Lesson Objectives

Check each objective that the student has mastered.

#### Lesson 1

- Find the least common multiple (LCM) of a set of numbers
- Find the greatest common factor (GCF) of a set of numbers
- Name all factors of a number

#### Lesson 2

- Write a fraction in simplest form
- Write mixed numbers as improper fractions
- Perform all operations on fractions, including mixed numbers: adding, subtracting, multiplying, dividing, and raising to a power

#### Lesson 3

- Simplify using order of operations, including expressions containing absolute value and exponents
- Simplify an expression with terms to the second or third power

#### Lesson 4

- Classify a number as rational or irrational
- Classify real numbers

#### Lesson 5

- Plot rational numbers on a number line
- Approximate irrational numbers on a number line
- Compare rational and irrational numbers using greater than or less than

#### Lesson 6

- Simplify square roots containing perfect square numbers
- Estimate a square root on a number line

#### Lesson 7

- Write a one-variable equation from a word problem and solve it
- Create an equation from a word problem
- Use vocabulary such as sum, difference, quotient, product, and other words that determine operations

#### Lesson 8

- Plan and persevere in math
- Correct mistakes
- Create a problem-solving plan for equations

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Lesson	Explore	Practice	Notes
<b>9</b> Solving Equations			
<b>10</b> Writing Equations			
<b>11</b> Evaluating Expressions			
<b>12</b> Solving with Formulas			
<b>13</b> Inequalities			
<b>14</b> Proportions			

### Lesson Objectives

Check each objective that the student has mastered.

#### Lesson 9

- Solve one- and two-step equations containing variables and integer coefficients.
- Solve one- and two-step equations containing variables and fractions (coefficients and/or constant terms).
- Use substitution. This includes checking a solution to a single variable equation.

#### Lesson 11

- Simplify using order of operations, including expressions containing absolute value and exponents.
- Simplify an expression with terms to the second or third power
- Evaluate an expression using substitution.
- Use substitution, this includes checking a solution to a single variable equation

#### Lesson 13

- Solve one- and two-step inequalities, including inequalities with fractional coefficients
- Graph single variable inequalities on a number line

#### Lesson 10

- Solve one- and two-step equations containing variables and integer coefficients.
- Solve one- and two-step equations containing variables and fractions (coefficients and/or constant terms).
- Use substitution. This includes checking a solution to a single variable equation.

#### Lesson 12

- Determine the correct formula to solve
- Apply the following formulas for area: triangle, square, rectangle, trapezoid, and circle
- Apply the following formulas for perimeter: triangle, square, rectangle, trapezoid, and circle
- Apply the following formulas for volume: prism, cone, pyramid, sphere, and cylinder
- Label a solution with the correct units

#### Lesson 14

- Use proportions to solve problems

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Lesson	Explore	Practice	Notes
<b>15</b> The Coordinate Plane			
<b>16</b> Unit Rates			
<b>17</b> Table of Values			
<b>18</b> Transformations on the Coordinate Plane			
<b>19</b> Patterns in Linear Scatter Plots			
<b>20</b> Dot Plots			
<b>21</b> Box Plots			
<b>22</b> Histograms and Bar Graphs			

### Lesson Objectives

Check each objective that the student has mastered.

#### Lesson 15

- Name each quadrant and axis of the coordinate plane
- Plot ordered pairs,  $(x, y)$ , in any quadrant of the coordinate plane
- Determine the horizontal or vertical distance between ordered pairs (points) on the coordinate plane

#### Lesson 17

- Given an equation with two variables, use the substitution property to find a missing variable
- Complete a table by solving for the missing values.

#### Lesson 19

- Determine the correlation of a linear scatter plot
- Describe the correlation meaning in context

#### Lesson 21

- Determine the five-number summary from a box plot
- Given a set of data, construct a box plot with appropriate labels

#### Lesson 16

- Compute a unit rate
- Determine a unit rate from a graph on the coordinate plane
- Apply the unit rate to predict values from a graph and/or a scenario

#### Lesson 18

- Reflect a figure over the  $x$ - and/or  $y$ -axis on the coordinate plane
- Translate a figure on the coordinate plane

#### Lesson 20

- Calculate the mean, median, mode, and range from a dot plot
- Construct a dot plot with appropriate labels and scales

#### Lesson 22

- Determine if data is categorical or quantitative
- Construct a histogram with appropriate labels and scales
- Construct a bar graph with appropriate labels and scales