

TSI Tutorials are designed based off of TSI/TSIA2 test specifications to provide students a more successful and less stressful preparation effort as they work to demonstrate their college readiness on the TSI Assessments.

TSI Tutorials offer targeted instruction, practice, and review. Students engage with the content in an interactive, feedback-rich environment as they progress through TSI/TSIA2 test aligned modules. Students practice skills essential to the test they are preparing for and build the depth of knowledge, confidence, and higher order skills required to demonstrate mastery when put to the test.

In each module, the Learn It and Try It make complex ideas accessible to students through focused content, guided analysis, and practice with personalized feedback so students are empowered to increase their exam readiness. The Review It offers an engaging and high impact video summary of key concepts and important to grasp connections. The Test It assesses students' mastery of the module's concepts, providing granular performance data to students and teachers, linking a student's performance to TSI/TSIA2 descriptions. To help students focus on the content most relevant to them, unit-level pretests and posttests can quickly identify where students are ready for test day and where they still need to review and practice.

TSI Tutorials are aligned with TSI Assessment Blueprints and Strand descriptions for Math and ELA test sections.

TSIA2 Tutorials are aligned with TSIA2 Test Specifications and Content Descriptions for Mathematics and English Language Arts and Reading.

## 1. RATIOS, RATES, AND PERCENTS

- **RATIOS**

- **VII.B.1** Use proportional reasoning to solve problems that require fractions, ratios, percentages, decimals, and proportions in a variety of contexts using multiple representations.

- **UNIT RATES**

- **VII.B.1** Use proportional reasoning to solve problems that require fractions, ratios, percentages, decimals, and proportions in a variety of contexts using multiple representations.

- **SOLVING PERCENT PROBLEMS**

- **VII.B.1** Use proportional reasoning to solve problems that require fractions, ratios, percentages, decimals, and proportions in a variety of contexts using multiple representations.

## 2. MEASUREMENT

- **MONITORING PRECISION AND ACCURACY**

- **I.C.1** Select or use the appropriate type of method, unit, and tool for the attribute being measured.

- **UNIT CONVERSIONS**

- **I.C.2** Convert units within and between systems of measurement.

## 3. PROPORTIONAL RELATIONSHIPS

- **IDENTIFYING PROPORTIONAL RELATIONSHIPS**

- **VII.B.1** Use proportional reasoning to solve problems that require fractions, ratios, percentages, decimals, and proportions in a variety of contexts using multiple representations.

- **ANALYZING PROPORTIONAL RELATIONSHIPS**

- **VII.B.1** Use proportional reasoning to solve problems that require fractions, ratios, percentages, decimals, and proportions in a variety of contexts using multiple representations.

- **REPRESENTING PROPORTIONAL RELATIONSHIPS**

- **VII.B.1** Use proportional reasoning to solve problems that require fractions, ratios, percentages, decimals, and proportions in a variety of contexts using multiple representations.

- **USING PROPORTIONS TO SOLVE PROBLEMS**

- **VII.B.1** Use proportional reasoning to solve problems that require fractions, ratios, percentages, decimals, and proportions in a variety of contexts using multiple representations.

## 4. OPERATIONS WITH FRACTIONS, DECIMALS, AND WHOLE NUMBERS

- **DIVIDING FRACTIONS**

- **I.A.2** Perform computations with rational and irrational numbers.

- **SOLVING PROBLEMS BY DIVIDING FRACTIONS**

- **I.A.2** Perform computations with rational and irrational numbers.

- **DIVIDING MULTI-DIGIT WHOLE NUMBERS**

- **I.A.2** Perform computations with rational and irrational numbers.

- **DECIMAL OPERATIONS**

- **I.A.2** Perform computations with rational and irrational numbers.

## 5. SIGNED NUMBERS

- **SIGNED NUMBERS**

- **I.A.1** Compare relative magnitudes of rational and irrational numbers, and understand that numbers can be represented in different ways.

- **INEQUALITIES AND COMPARISON**

- **I.A.1** Compare relative magnitudes of rational and irrational numbers, and understand that numbers can be represented in different ways.

- **SOLUTIONS OF EQUATIONS AND INEQUALITIES**

- **II.A.1** Explain the difference between expressions and equations.

- **ABSOLUTE VALUE**

- **I.A.1** Compare relative magnitudes of rational and irrational numbers, and understand that numbers can be represented in different ways.
- **I.A.2** Perform computations with rational and irrational numbers.

## 6. ADDING AND SUBTRACTING RATIONAL NUMBERS

- **ADDING RATIONAL NUMBERS**

- **I.A.2** Perform computations with rational and irrational numbers.

- **SUBTRACTING RATIONAL NUMBERS**
  - **I.A.2** Perform computations with rational and irrational numbers.
- **USING PROPERTIES TO ADD AND SUBTRACT RATIONAL NUMBERS**
  - **I.A.2** Perform computations with rational and irrational numbers.

## 7. OPERATIONS WITH RATIONAL AND IRRATIONAL NUMBERS

- **APPROXIMATING IRRATIONAL NUMBERS**
  - **I.A.1** Compare relative magnitudes of rational and irrational numbers, and understand that numbers can be represented in different ways.
- **MULTIPLYING RATIONAL NUMBERS**
  - **I.A.2** Perform computations with rational and irrational numbers.
- **DIVIDING RATIONAL NUMBERS**
  - **I.A.2** Perform computations with rational and irrational numbers.
- **USING PROPERTIES TO MULTIPLY AND DIVIDE RATIONAL NUMBERS**
  - **I.A.2** Perform computations with rational and irrational numbers.
- **OPERATIONS ON RATIONAL AND IRRATIONAL NUMBERS**
  - **I.A.2** Perform computations with rational and irrational numbers.

## 8. EXPRESSIONS

- **EQUIVALENT EXPRESSIONS**
  - **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).
- **EVALUATING EXPRESSIONS**
  - **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).
- **SIMPLIFYING SQUARE ROOTS**
  - **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).
- **LAWS OF EXPONENTS**
  - **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

## 9. SOLVING EQUATIONS AND INEQUALITIES

- **ONE-STEP EQUATIONS AND INEQUALITIES**
  - **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.
  - **II.C.1** Describe and interpret solution sets of equalities and inequalities.
  - **II.C.2** Explain the difference between the solution set of an equation and the solution set of an inequality.

- **SOLVING MULTI-STEP EQUATIONS**

- **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.

- **AXIOMS OF EQUALITY**

- **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.

## 10. WRITING EXPRESSIONS AND EQUATIONS

- **FORMULATING AND SIMPLIFYING ALGEBRAIC EXPRESSIONS**

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

- **FORMULATING AND SOLVING EQUATIONS FROM WORD PROBLEMS**

- **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.

- **FORMULATING AND SOLVING INEQUALITIES FROM WORD PROBLEMS**

- **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.

## 11. FUNCTIONS

- **FUNCTIONS AND RELATIONS**

- **VI.B.1** Understand and analyze features of a functions.

- **DOMAIN AND RANGE**

- **VI.B.1** Understand and analyze features of a functions.

- **EVALUATING FUNCTIONS**

- **VI.B.1** Understand and analyze features of a functions.

## 12. GRAPHS OF LINEAR EQUATIONS AND INEQUALITIES

- **SLOPE**

- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.

- **GRAPHING AND ANALYZING LINEAR FUNCTIONS**

- **VI.B.1** Understand and analyze features of a functions.
- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.
- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.

- **GRAPHING AND MANIPULATING  $Y = MX + B$**

- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.
- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.

- **GRAPHS OF LINEAR INEQUALITIES**

- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.
- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.

### 13. FORMS OF LINEAR EQUATIONS

- **SLOPE-INTERCEPT FORM OF A LINEAR EQUATION**

- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.
- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.

- **SLOPES OF PERPENDICULAR AND PARALLEL LINES**

- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.

- **POINT-SLOPE FORM OF A LINEAR EQUATION**

- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.
- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.

### 14. SYSTEMS OF LINEAR EQUATIONS

- **SOLVING SYSTEMS OF LINEAR EQUATIONS: GRAPHING**

- **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.

- **SOLVING SYSTEMS OF LINEAR EQUATIONS: SUBSTITUTION**

- **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.

- **SOLVING SYSTEMS OF LINEAR EQUATIONS: ELIMINATION**

- **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.

- **SOLVING SYSTEMS OF LINEAR INEQUALITIES**

- **II.C.3** Recognize and use algebraic properties, concepts, and algorithms to solve equations, inequalities, and systems of linear equations and inequalities.

### 15. OPERATIONS WITH POLYNOMIALS

- **POLYNOMIAL BASICS**

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

- **ADDITION AND SUBTRACTION OF POLYNOMIALS**

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

- **MULTIPLICATION OF POLYNOMIALS**

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

- **DIVISION OF POLYNOMIALS**

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions

(e.g., polynomials, radicals, rational expressions).

## 16. FACTORING POLYNOMIALS

### ● FACTORING POLYNOMIALS WITH GCF

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

### ● FACTORING QUADRATIC TRINOMIALS

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

### ● FACTORING SPECIAL CASES

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

### ● FACTORING HIGHER-ORDER POLYNOMIALS

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

## 17. SOLVING QUADRATIC EQUATIONS

### ● SOLVING EQUATIONS USING ROOTS

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

### ● SOLVING QUADRATIC EQUATIONS BY FACTORING

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

### ● QUADRATIC FORMULA

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

## 18. GRAPHS AND REPRESENTATIONS OF QUADRATIC FUNCTIONS

### ● QUADRATIC FUNCTIONS

- **VI.B.1** Understand and analyze features of a functions.
- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.
- **VI.C.1** Apply known functions to model real-world situations.
- **VI.C.2** Develop a function to model a situation.
- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.

### ● REPRESENTATIONS OF QUADRATIC FUNCTIONS

- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.
- **VI.B.1** Understand and analyze features of a functions.
- **VI.B.2** Algebraically construct and analyze new functions.
- **VI.C.1** Apply known functions to model real-world situations.
- **VI.C.2** Develop a function to model a situation.
- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.

## 19. COMPARING AND ANALYZING EXPONENTIAL FUNCTIONS

### • EXPONENTIAL FUNCTIONS

- **VI.B.1** Understand and analyze features of a functions.
- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).
- **VI.C.1** Apply known functions to model real-world situations.
- **VI.C.2** Develop a function to model a situation.

### • EXPONENTIAL GROWTH AND DECAY

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).
- **VI.B.1** Understand and analyze features of a functions.
- **II.D.1** Interpret multiple representations of equations, inequalities, and relationships.
- **VI.B.2** Algebraically construct and analyze new functions.
- **VI.C.1** Apply known functions to model real-world situations.
- **VI.C.2** Develop a function to model a situation.
- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.

### • MULTIPLE REPRESENTATIONS OF FUNCTIONS

- **II.D.2** Convert among multiple representations of equations, inequalities, and relationships.

## 20. RATIONAL FUNCTIONS

### • OPERATIONS WITH RATIONAL EXPRESSIONS

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

### • ANALYZING GRAPHS OF RATIONAL FUNCTIONS

- **VI.B.1** Understand and analyze features of a functions.

### • MODELING SITUATIONS WITH RATIONAL FUNCTIONS

- **VI.B.1** Understand and analyze features of a functions.
- **VI.B.2** Algebraically construct and analyze new functions.
- **VI.C.1** Apply known functions to model real-world situations.
- **VI.C.2** Develop a function to model a situation.

## 21. RADICAL FUNCTIONS

### • ADVANCED PROPERTIES OF SQUARE ROOT EXPRESSIONS

- **II.B.1** Recognize and use algebraic properties, concepts, and algorithms to combine, transform, and evaluate expressions (e.g., polynomials, radicals, rational expressions).

### • ANALYZING GRAPHS OF SQUARE ROOT FUNCTIONS

- **VI.B.1** Understand and analyze features of a functions.
- **VI.C.1** Apply known functions to model real-world situations.
- **VI.C.2** Develop a function to model a situation.

## 22. POINTS, RAYS, LINE SEGMENTS, LINES, AND FIGURES

### • POINTS, RAYS, LINE SEGMENTS, LINES, AND FIGURES

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **PARALLEL LINES AND ANGLE RELATIONSHIPS**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.C.1** Make connections between geometry and algebraic equations.
- **III.D.3** Determine indirect measurements of geometric figures using a variety of methods.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **CIRCLES**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

## 23. TRIANGLES

- **CLASSIFYING TRIANGLES**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **TRIANGLE ANGLE THEOREMS**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

## 24. POLYGONS

- **POLYGON BASICS**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **PARALLELOGRAMS AND RECTANGLES**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **SQUARES AND RHOMBI**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **AREA OF POLYGONS**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

## 25. COORDINATE GEOMETRY

- **COORDINATE GEOMETRY**

- **III.B.2** Use transformations to investigate congruence, similarity, and symmetries of figures.
- **III.B.1** Identify transformations and symmetries of figures.

- **TRANSFORMATIONS ON THE COORDINATE PLANE**

- **III.B.2** Use transformations to investigate congruence, similarity, and symmetries of figures.



- **III.B.1** Identify transformations and symmetries of figures.

- **DILATIONS, TRANSLATIONS, ROTATIONS, AND REFLECTIONS**

- **III.B.2** Use transformations to investigate congruence, similarity, and symmetries of figures.
- **III.B.1** Identify transformations and symmetries of figures.

## 26. CONGRUENCE AND SIMILARITY

- **TRIANGLES AND CONGRUENCE TRANSFORMATIONS**

- **III.B.2** Use transformations to investigate congruence, similarity, and symmetries of figures.

- **CONGRUENCE OF OTHER POLYGONS**

- **III.B.2** Use transformations to investigate congruence, similarity, and symmetries of figures.

- **TRIANGLES AND SIMILARITY TRANSFORMATIONS**

- **III.B.2** Use transformations to investigate congruence, similarity, and symmetries of figures.

- **SIMILARITY OF OTHER POLYGONS**

- **III.B.2** Use transformations to investigate congruence, similarity, and symmetries of figures.

## 27. RIGHT TRIANGLES AND TRIGONOMETRY

- **PYTHAGOREAN THEOREM**

- **III.A.3** Recognize and apply right triangle relationships including basic trigonometry.
- **III.C.1** Make connections between geometry and algebraic equations.
- **III.D.3** Determine indirect measurements of geometric figures using a variety of methods.

- **PYTHAGOREAN TRIPLES**

- **III.A.3** Recognize and apply right triangle relationships including basic trigonometry.
- **III.C.1** Make connections between geometry and algebraic equations.
- **III.D.3** Determine indirect measurements of geometric figures using a variety of methods.

- **SPECIAL RIGHT TRIANGLES**

- **III.A.3** Recognize and apply right triangle relationships including basic trigonometry.

- **TRIGONOMETRIC RATIOS**

- **III.A.3** Recognize and apply right triangle relationships including basic trigonometry.

## 28. SURFACE AREA

- **SURFACE AREA OF PRISMS AND PYRAMIDS**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.
- **III.D.2** Determine the surface area and volume of three-dimensional figures.

- **SURFACE AREA OF CYLINDERS AND CONES**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.
- **III.D.2** Determine the surface area and volume of three-dimensional figures.

- **SURFACE AREA OF COMPOSITE SOLIDS**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.D.2** Determine the surface area and volume of three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

## 29. VOLUME

- **VOLUME OF PRISMS AND PYRAMIDS**

- **III.D.2** Determine the surface area and volume of three-dimensional figures.
- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **VOLUME OF CYLINDERS AND CONES**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.D.2** Determine the surface area and volume of three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **VOLUME OF COMPOSITE SOLIDS**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.D.2** Determine the surface area and volume of three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.

- **SURFACE AREA AND VOLUME OF SPHERES**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.A.2** Form and validate conjectures about one-, two-, and three-dimensional figures and their properties.
- **III.D.2** Determine the surface area and volume of three-dimensional figures.

## 30. WORKING WITH SOLIDS

- **EFFECTS OF CHANGING DIMENSIONS ON PERIMETER, AREA, AND VOLUME**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.D.1** Find the perimeter and area of two-dimensional figures.

- **RELATING TWO-DIMENSIONAL FIGURES TO THREE-DIMENSIONAL SOLIDS**

- **III.A.1** Recognize characteristics and dimensional changes of two- and three-dimensional figures.
- **III.D.1** Find the perimeter and area of two-dimensional figures.

## 31. INTRODUCTION TO STATISTICS

- **MEASURES OF CENTER AND VARIABILITY**

- **V.B.3** Compute and describe the study data with measures of center and basic notions of spread.
- **V.C.1** Analyze data sets using graphs and summary statistics.

- **DATA ANALYSIS**

- **V.B.2** Construct appropriate visual representations of data.
- **V.B.1** Classify types of data.
- **V.C.1** Analyze data sets using graphs and summary statistics.
- **V.B.4** Describe patterns and departure from patterns in the study data.
- **V.B.3** Compute and describe the study data with measures of center and basic notions of spread.

- **V.C.3** Make predictions using summary statistics.
- **V.C.4** Identify and explain misleading uses of data.

- **SUMMARIZING DATA USING MEASURES OF CENTER AND VARIABILITY**

- **V.B.3** Compute and describe the study data with measures of center and basic notions of spread.
- **V.B.1** Classify types of data.

- **CHOOSING APPROPRIATE MEASURES TO SUMMARIZE DATA SETS**

- **V.C.1** Analyze data sets using graphs and summary statistics.
- **V.B.2** Construct appropriate visual representations of data.
- **V.B.1** Classify types of data.

## 32. COMPARING AND MODELING DATA

- **COMPARING DATA SETS VISUALLY**

- **V.B.4** Describe patterns and departure from patterns in the study data.

- **USING STATISTICAL MEASURES TO COMPARE DATA SETS**

- **V.B.4** Describe patterns and departure from patterns in the study data.

- **SCATTERPLOTS**

- **V.B.4** Describe patterns and departure from patterns in the study data.
- **V.C.2** Analyze relationships between paired data using spreadsheets, graphing calculators, or statistical software.

- **SCATTERPLOTS AND MODELING**

- **V.C.3** Make predictions using summary statistics.
- **V.C.2** Analyze relationships between paired data using spreadsheets, graphing calculators, or statistical software.
- **V.B.4** Describe patterns and departure from patterns in the study data.

## 33. PROBABILITY

- **CALCULATING PROBABILITY**

- **IV.B.1** Compute and interpret the probability of an event and its complement.
- **IV.A.1** Determine the nature and the number of elements in a finite sample space.

- **PROBABILITY OF COMPOUND EVENTS**

- **IV.B.2** Compute and interpret the probability of [conditional and] compound events.
- **IV.A.1** Determine the nature and the number of elements in a finite sample space.

- **ANALYZING DECISIONS IN PROBABILITY**

- **IV.C.1** Use probability to make informed decisions.

- **GEOMETRIC PROBABILITIES**

- **III.C.2** Make connections between geometry, statistics, and probability.
- **IV.B.1** Compute and interpret the probability of an event and its complement.

## 34. TEST-TAKING STRATEGIES

- **STUDY HABITS**

- **BEING PREPARED AND GETTING STARTED**
- **WORDING IN TEST QUESTIONS**
- **WORDING IN ANSWER CHOICES**
- **QUESTIONS WITH PASSAGES AND VISUAL DATA**
- **ESSAY AND SHORT ANSWER QUESTIONS**
- **WORD PROBLEMS**