

**TABE 9 & 10**  
*Matched to*  
**SkillsTutor and SkillsBank Intermediate Math**

**Test 2 - Mathematics Computation**  
**TABE® 9&10 OBJECTIVE AND SUB-SKILL**

## **2.7 Integers**

### **Addition**

**Introduction to Algebra:**

Introduction to Algebra: Lesson 2: Addition and Subtraction of Integers

### **Subtraction**

**Introduction to Algebra:**

Introduction to Algebra: Lesson 2: Addition and Subtraction of Integers

### **Multiplication**

**Introduction to Algebra:**

Introduction to Algebra: Lesson 3: Multiplication and Division of Integers

### **Division**

**Introduction to Algebra:**

Introduction to Algebra: Lesson 3: Multiplication and Division of Integers

## **2.8 Percents**

### **Percents**

**Proportion and Percent:**

Proportion and Percent: Lesson 1: Relationship of Ratios, Percents and Decimals

Proportion and Percent: Lesson 7: Finding the Part by Using Number Sentences

Proportion and Percent: Lesson 8: Finding the Percent by Using Number Sentences

Proportion and Percent: Lesson 9: Finding the Whole by Using Number Sentences

Proportion and Percent: Lesson 10: Percent of Change

Proportion and Percent: Lesson 11: Discounts

Proportion and Percent: Lesson 12: Simple Interest

Proportion and Percent: Thinking Skills Lesson: Comparison: Movie House Management

## **2.9 Order of Operations**

**Introduction to Algebra:**

Introduction to Algebra: Lesson 5: Scientific Notation  
Introduction to Algebra: Lesson 6: Operations with Exponents  
Introduction to Algebra: Lesson 7: Simplifying Numerical Expressions  
Introduction to Algebra: Lesson 8: Sequences  
Introduction to Algebra: Thinking Skills Lesson: Prediction: Number Sequence Puzzles

## 2.10 Algebraic Operations

### Computation with exponents

**Introduction to Algebra:**

Introduction to Algebra: Lesson 4: Exponents and Square Roots  
Introduction to Algebra: Lesson 5: Scientific Notation  
Introduction to Algebra: Lesson 6: Operations with Exponents  
Introduction to Algebra: Lesson 7: Simplifying Numerical Expressions

### Computation with roots and radicals

**Introduction to Algebra:**

Introduction to Algebra: Lesson 4: Exponents and Square Roots

### Simplify expression

**Introduction to Algebra:**

Introduction to Algebra: Lesson 7: Simplifying Numerical Expressions

### Solve equations

**Introduction to Algebra:**

Introduction to Algebra: Lesson 11: One-Step Equations  
Introduction to Algebra: Lesson 12: Two-Step Equations  
Introduction to Algebra: Lesson 13: Graphing on the Coordinate Plane  
Introduction to Algebra: Lesson 14: Writing Equations from Words  
Introduction to Algebra: Lesson 15: Distance-Rate-Time Problems  
Introduction to Algebra: Thinking Skills Lesson: Decision Making: Buying a House

## Test 3 - Applied Mathematics TABE® 9&10 OBJECTIVE AND SUB-SKILL

### 3.1 Number and Number Operations

#### Exponents, scientific notation

**Introduction to Algebra:**

Introduction to Algebra: Lesson 4: Exponents and Square Roots  
Introduction to Algebra: Lesson 5: Scientific Notation

## Percent

### Proportion and Percent:

Proportion and Percent: Lesson 1: Relationship of Ratios, Percents and Decimals  
Proportion and Percent: Lesson 7: Finding the Part by Using Number Sentences  
Proportion and Percent: Lesson 8: Finding the Percent by Using Number Sentences  
Proportion and Percent: Lesson 9: Finding the Whole by Using Number Sentences  
Proportion and Percent: Lesson 10: Percent of Change  
Proportion and Percent: Lesson 11: Discounts  
Proportion and Percent: Lesson 12: Simple Interest  
Proportion and Percent: Thinking Skills Lesson: Comparison: Movie House Management

## Ratio, proportion

### Proportion and Percent:

Proportion and Percent: Lesson 1: Relationship of Ratios, Percents and Decimals  
Proportion and Percent: Lesson 2: Ratio and Proportion  
Proportion and Percent: Lesson 3: Using Proportions to Find Group Prices  
Proportion and Percent: Lesson 4: Finding the Part by Using Proportions

## Roots, radicals

### Introduction to Algebra:

Introduction to Algebra: Lesson 4: Exponents and Square Roots

## 3.2 Computation in Context

### Percents

#### Proportion and Percent:

Proportion and Percent: Lesson 1: Relationship of Ratios, Percents and Decimals  
Proportion and Percent: Lesson 7: Finding the Part by Using Number Sentences  
Proportion and Percent: Lesson 8: Finding the Percent by Using Number Sentences  
Proportion and Percent: Lesson 9: Finding the Whole by Using Number Sentences  
Proportion and Percent: Lesson 10: Percent of Change  
Proportion and Percent: Lesson 11: Discounts  
Proportion and Percent: Lesson 12: Simple Interest  
Proportion and Percent: Thinking Skills Lesson: Comparison: Movie House Management

## 3.4 Measurement

### Appropriate unit

#### Geometry:

Geometry: Lesson 1: Units Length  
Geometry: Lesson 2: Units of Weight and Capacity

### Angle measurement

**Geometry:**

Geometry: Lesson 4: Angles

Geometry: Lesson 5: Lines and Angles

## Area

**Geometry:**

Geometry: Lesson 6: Area of Polygons

Geometry: Lesson 8: Area of Circles

Geometry: Lesson 9: Surface Area

## Circumference

**Geometry:**

Geometry: Lesson 7: Circumference of Circles

## Convert measurement units

**Geometry:**

Geometry: Lesson 1: Units Length

Geometry: Lesson 2: Units of Weight and Capacity

## Length, distance

**Geometry:**

Geometry: Lesson 1: Units Length

## Mass, weight

**Geometry:**

Geometry: Lesson 2: Units of Weight and Capacity

## Rate

**Introduction to Algebra:**

Introduction to Algebra: Lesson 15: Distance-Rate-Time Problems

## Time

**Geometry:**

Geometry: Lesson 3: Time Zones

## Volume

**Geometry:**

Geometry: Lesson 10: Volume of Prisms and Cylinders

## **3.5 Geometry and Spatial Sense**

### **Point, ray, line, plane**

#### **Geometry:**

Geometry: Lesson 5: Lines and Angles

### **Angles**

#### **Geometry:**

Geometry: Lesson 4: Angles

Geometry: Lesson 5: Lines and Angles

### **Pythagorean Theorem**

#### **Geometry:**

Geometry: Lesson 12: Pythagorean Theorem

## **3.6 Data Analysis**

### **Appropriate data display**

#### **Statistics and Probability:**

Statistics and Probability: Lesson 1: Pictographs

Statistics and Probability: Lesson 2: Bar Graphs

Statistics and Probability: Lesson 3: Line Graphs

Statistics and Probability: Lesson 4: Circle Graphs

### **Bar, line, circle graph**

#### **Statistics and Probability:**

Statistics and Probability: Lesson 2: Bar Graphs

Statistics and Probability: Lesson 3: Line Graphs

### **Conclusions from data**

#### **Statistics and Probability:**

Statistics and Probability: Lesson 1: Pictographs

Statistics and Probability: Lesson 2: Bar Graphs

Statistics and Probability: Lesson 3: Line Graphs

Statistics and Probability: Lesson 4: Circle Graphs

## **3.7 Statistics and Probability**

### **Probability**

#### **Statistics and Probability:**

Statistics and Probability: Lesson 6: Simple Probability  
Statistics and Probability: Lesson 7: Counting Outcomes  
Statistics and Probability: Lesson 8: Predicting Outcomes  
Statistics and Probability: Thinking Skills Lesson: Prediction: The Real Cost of Living

## **Statistics**

### **Statistics and Probability:**

Statistics and Probability: Lesson 6: Simple Probability  
Statistics and Probability: Lesson 7: Counting Outcomes  
Statistics and Probability: Lesson 8: Predicting Outcomes  
Statistics and Probability: Thinking Skills Lesson: Prediction: The Real Cost of Living

## **3.8 Patterns, Functions, Algebra**

### **Missing element**

#### **Introduction to Algebra:**

Introduction to Algebra: Lesson 9: Evaluating Variable Expressions  
Introduction to Algebra: Lesson 10: Simplifying Variable Expressions  
Introduction to Algebra: Lesson 11: One-Step Equations  
Introduction to Algebra: Lesson 12: Two-Step Equations

### **Number pattern**

#### **Introduction to Algebra:**

Introduction to Algebra: Lesson 8: Sequences

### **Variable, expression, equation**

#### **Introduction to Algebra:**

Introduction to Algebra: Lesson 9: Evaluating Variable Expressions  
Introduction to Algebra: Lesson 10: Simplifying Variable Expressions  
Introduction to Algebra: Lesson 11: One-Step Equations  
Introduction to Algebra: Lesson 12: Two-Step Equations

### **Evaluation solution**

#### **Introduction to Algebra:**

Introduction to Algebra: Lesson 9: Evaluating Variable Expressions  
Introduction to Algebra: Lesson 10: Simplifying Variable Expressions  
Introduction to Algebra: Lesson 11: One-Step Equations  
Introduction to Algebra: Lesson 12: Two-Step Equations

## **3.9 Problem Solving and Reasoning**

### **Identify missing / extra information**

## Word Problems

### Proportion and Percent:

Proportion and Percent: Thinking Skills Lesson: Comparison: Movie House Management

### Introduction to Algebra:

Introduction to Algebra: Thinking Skills Lesson: Prediction: Number Sequence Puzzles

Introduction to Algebra: Thinking Skills Lesson: Decision Making: Buying a House

### Geometry:

Geometry: Thinking Skills Lesson: Problem Solving: Building a Sandbox

### Statistics and Probability:

Statistics and Probability: Thinking Skills Lesson: Prediction: The Real Cost of Living

## Evaluate solution

### Word Problems

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## Model problem situation, solution

### Word Problems

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## Solve problem

### Word Problems

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**Geometry:**

Geometry: Thinking Skills Lesson: Problem Solving: Building a Sandbox

**Statistics and Probability:**

Statistics and Probability: Thinking Skills Lesson: Prediction: The Real Cost of Living