

	Date	Test Score	Proficiency	Counting?						
<i>Pretest (Unit Test I)</i>										
	LESSON PRACTICE			TEACH BACK	SYSTEMATIC REVIEW			A&E	Lesson Test	Test Date
	A	B	C		D	E	F			
1 Fraction of a Number										
2 Fraction of One										
3 Add, Subtract Same Denominator										
4 Equivalent Fractions										
5 Add, Subtract Unequal Denominators										
6 Rule of Four										
7 Compare Fractions										
8 Add Multiple Fractions										
	Date	Test Score	Proficiency	Counting?						
<i>Posttest (Unit Test I)</i>										

LESSON OBJECTIVES
Lesson 1 Fraction of a Number

- EP.1.a Use models to represent fractions of whole numbers
- EP.1.b Describe a simple proper fraction using the terms numerator and denominator
- EP.1.c Identify a proper fraction, improper fraction, and mixed number
- EP.1.d Calculate a fraction of a whole number

Lesson 2 Fraction of One

- EP.2.a Model a proper fraction using manipulatives
- EP.2.b Identify the fraction represented in a model using words
- EP.2.c Name the fraction represented in a model using symbols

Lesson 3 Add, Subtract Same Denominator

- EP.3.a Use models to represent two fractions with common denominators
- EP.3.b Represent the sum or difference of two fractions using fraction notation
- EP.3.c Express the sum or difference of two fractions using words
- EP.3.d Add or subtract two fractions with common denominators
- EP.3.e Apply knowledge of adding and subtracting fractions with common denominators to solve word problems

Lesson 4 Equivalent Fractions

- EP.4.a Use models to represent equivalent fractions
- EP.4.b Express fractions in words
- EP.4.c Add or subtract fractions with common denominators
- EP.4.d Use knowledge of equivalent fractions to solve word problems

Lesson 5 Add, Subtract Unequal Denominators

- EP.5.a Build models of equivalent fractions to find common denominators
- EP.5.b Use models to add and subtract fractions with unequal denominators
- EP.5.c Apply knowledge of adding and subtracting fractions to solve word problems

Lesson 6 Rule of Four

- EP.6.a Use the "rule of four" to add and subtract pairs of proper fractions with unequal denominators

Lesson 7 Compare Fractions

- EP.7.a Build models of fractions with unequal denominators to find a common denominator
- EP.7.b Describe the relationship of two fractions using $>$, $<$, or $=$



Lesson 8 Add Multiple Fractions

- EP.8.a Use the “rule of four” to add multiple proper fractions with unequal denominators
- EP.8.b Add multiple fractions with unequal denominators
- EP.8.c Apply knowledge of equivalent fractions to solve word problems

	Date	Test Score	Proficiency	Counting?						
<i>Pretest (Unit Test II)</i>										
	LESSON PRACTICE			TEACH BACK	SYSTEMATIC REVIEW			A&E	Lesson Test	Test Date
	A	B	C		D	E	F			
9 Multiply Fractions										
10 Divide Fractions										
11 Common Factors										
12 Reduce Fractions 1										
13 Reduce Fractions 2										
14 Fractional Lengths										
15 Mixed Numbers 1										
16 Mixed Numbers 2										
	Date	Test Score	Proficiency	Counting?						
<i>Posttest (Unit Test II)</i>										

LESSON OBJECTIVES
Lesson 9 Multiply Fractions

- EP.9.a Explain that calculating a fraction of a fraction is equivalent to multiplication of a fraction by a fraction
- EP.9.b Use models to show multiplication of fractions
- EP.9.c Multiply a fraction by a whole number

Lesson 10 Divide Fractions

- EP.10.a Use the “rule of four” to divide pairs of proper fractions with unequal denominators
- EP.10.b Divide a fraction by a fraction
- EP.10.c Apply knowledge of dividing fractions to solve word problems

Lesson 11 Common Factors

- EP.11.a Apply rules of divisibility to find common factors for a pair or group of numbers
- EP.11.b Determine the Greatest Common Factor (GCF) for a number or pair of numbers

Lesson 12 Reduce Fractions 1

- EP.12.a Use models to illustrate simplifying fractions by a common factor
- EP.12.b Determine the GCF to simplify fractions to lowest terms
- EP.12.c Simplify fractions to lowest terms

Lesson 13 Reduce Fractions 2

- EP.13.a Use models to build rectangles to represent prime numbers from one to twenty-four
- EP.13.b Find the prime factors for given values by using a factor tree
- EP.13.c Use prime factorization to simplify fractions
- EP.13.d Explain why prime factorization is an effective method when the GCF is not obvious

Lesson 14 Fractional Lengths

- EP.14.a Use models to illustrate common fractional increments on a customary ruler
- EP.14.b Demonstrate using a ruler as a practical application for simplifying fractions
- EP.14.c Draw a line of a given fractional length
- EP.14.d Simplify fractional measurements to lowest terms when measuring with a ruler

Lesson 15 Mixed Numbers 1

- EP.15.a Define the terms mixed number, proper fraction, and improper fraction
- EP.15.b Write fractions as mixed numbers, proper fractions, and improper fractions
- EP.15.c Use models to illustrate how to convert a mixed number to an improper fraction and vice versa
- EP.15.d Convert mixed numbers to improper fractions and vice versa

Lesson 16 Mixed Numbers 2

- EP.16.a Apply knowledge of fractions, mixed numbers, and simplifying fractions to read measurements on a customary ruler

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LESSON OBJECTIVES
Lesson 17 Add, Subtract Mixed Numbers

- EP.17.a Use estimation when adding mixed numbers with common denominators, without regrouping, to determine if the answer is reasonable
- EP.17.b Add and subtract mixed numbers with common denominators

Lesson 18 Add Mixed Numbers (Regrouping)

- EP.18.a Build models of mixed numbers with common denominators to illustrate how to add the fractional pieces by converting them to whole-number parts
- EP.18.b Add mixed numbers with common denominators, using regrouping
- EP.18.c Simplify answers to lowest terms when possible

Lesson 19 Subtract Mixed Numbers (Regrouping)

- EP.19.a Use models to demonstrate how to regroup when subtracting mixed numbers
- EP.19.b Subtract mixed numbers with common denominators, using regrouping as necessary

Lesson 20 Same Difference Theorem

- EP.20.a Apply the "same difference theorem" to subtract mixed numbers with common denominators

Lesson 21 Add Mixed Numbers Unequal Denominators

- EP.21.a Add mixed numbers with unequal denominators by using the "rule of four" to find a common denominator
- EP.21.b Add fractions with unequal denominators with regrouping

Lesson 22 Subtract Mixed Numbers Unequal Denominators

- EP.22.a Subtract mixed numbers with unequal denominators by finding a common denominator with the "rule of four"
- EP.22.b Subtract fractions with unequal denominators using the "same difference theorem"
- EP.22.c Subtract fractions with unequal denominators with regrouping

Lesson 23 Divide with Reciprocal

- EP.23.a Define reciprocal
- EP.23.b Explain why multiplying by the reciprocal of a number is the same as dividing by that number
- EP.23.c Convert mixed numbers to improper fractions before dividing
- EP.23.d Divide fractions by multiplying by the reciprocal

	Date	Test Score	Proficiency	Counting?																	
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24 Solve for Unknown 1																					
25 Multiply 3 Fractions																					
26 Solve for Unknown 2																					
27 Area, Circumference of a Circle																					
28 Solve for Unknown 3																					
29 Fraction to Decimal to Percentage																					
30 Solve for Unknown 4																					
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<i>Posttest (Unit Test IV)</i>																					

LESSON OBJECTIVES
Lesson 24 Solve for Unknown 1

- EP.24.a Define multiplicative inverse
- EP.24.b Solve for an unknown in an equation by using the multiplicative inverse
- EP.24.c Check work for accuracy by substituting the unknown with the solution
- EP.24.d Apply knowledge of solving equations to solve word problems

Lesson 25 Multiply 3 Fractions

- EP.25.a Multiply mixed numbers
- EP.25.b Multiply fractions, simplifying first by finding common factors
- EP.25.c Multiply fractions and simplify the final product by finding common factors

Lesson 26 Solve for Unknown 2

- EP.26.a Solve equations by using the additive inverse to isolate the unknown
- EP.26.b Multiply by the multiplicative inverse to eliminate a coefficient

Lesson 27 Area, Circumference of a Circle

- EP.27.a Define circumference of a circle
- EP.27.b Define area of a circle
- EP.27.c Substitute the approximation of π ($\frac{22}{7}$) into formulas to calculate the area of a circle
- EP.27.d Substitute the approximation of π ($\frac{22}{7}$) into formulas to calculate the circumference a circle

Lesson 28 Solve for Unknown 3

- EP.28.a Use the multiplicative inverse to isolate the unknown when the coefficient is a fraction
- EP.28.b Solve simple equations with fractional coefficients

Lesson 29 Fraction to Decimal to Percentage

- EP.29.a Define the terms place value, decimal, expanded notation, and percent
- EP.29.b Use models to illustrate converting a denominator to a power of ten
- EP.29.c Convert fractions to percentages
- EP.29.d Convert decimals to percentages

Lesson 30 Solve for Unknown 4

- EP.30.a Solve equations with rational numbers
- EP.30.b Use the multiplicative inverse to find the unknown

	Appendix A1	Appendix A2
A Area of a Trapezoid		

LESSON OBJECTIVES

Appendix A Area of a Trapezoid

EP.A.a Find the area of a trapezoid