

Math DesCartes: Estimation and Accurate Computations

Skills: Fractions and Decimals – Addition and Subtraction

Students:	DesCartes Skills: (Highlight the skills related to your chosen standard/concept)		
	<p>RIT 231-240:</p> <ul style="list-style-type: none"> • Adds fractions with unlike denominators, with reducing or converting to a mixed fraction • Adds whole numbers, fractions, and mixed fractions, without reducing • Adds mixed fractions where converting from improper fractions is necessary • Subtracts whole numbers, fractions, and mixed fractions, with regrouping • Solves real-world problems involving addition and subtraction of fractions, where converting both denominators is necessary • Subtracts a decimal from a whole number, horizontally 		<ul style="list-style-type: none"> • Subtracts mixed fractions with unlike denominators, with no regrouping • Solves real-world problems involving addition and subtraction of fractions, where converting one denominator is necessary • Adds decimals to the hundredths place in horizontal format (not same number of digits) • Adds decimals to the thousandths place horizontally, with and without regrouping • Adds decimals through the hundred-thousandths place • Subtracts decimals to the thousandths place, vertically, with the zero missing in the ones place • Subtracts decimals to the thousandths place, horizontally, with and without regrouping • Computes the value of multiple bills and coins (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) • Computes addition and subtraction on multiple-step real-world problems involving money
	<p>RIT 221-230:</p> <ul style="list-style-type: none"> • Adds fractions with like denominators, with reducing or converting to a mixed fraction • Adds fractions with unlike denominators, without reducing • Adds fractions with unlike denominators, with reducing or converting to a mixed fraction • Adds whole numbers, fractions, and mixed fractions, without reducing • Adds mixed fractions where converting from improper fractions is necessary • Subtracts fractions with like denominators, with reducing • Subtracts fractions with unlike denominators, without reducing • Subtracts fractions with unlike denominators, with reducing • Subtracts mixed fractions with unlike denominators, with no regrouping • Subtracts whole numbers, fractions, and mixed fractions, with regrouping • Solves real-world problems involving addition and subtraction of fractions, where converting one denominator is necessary • Adds decimals to the hundredths place in horizontal format (not same number of digits) • Adds decimals through the hundred-thousandths place • Subtracts decimals to the hundredths place (not same number of digits) • Subtracts decimals to the thousandths place, horizontally, with and without regrouping • Subtracts decimals through the hundred-thousandths place, horizontally • Subtracts a decimal from a whole number, horizontally 		<p>RIT 201-210:</p> <ul style="list-style-type: none"> • Adds fractions with like denominators, without reducing • Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) • Adds whole numbers and fractions • Subtracts fractions with like denominators, without reducing • Subtracts mixed fractions with like denominators, with no regrouping • Subtracts whole numbers, fractions, and mixed fractions • Solves real-world 1-step problems involving addition and subtraction of fractions with like denominators • Adds decimals to the hundredths place in vertical format (not same number of digits) • Adds decimals to the thousandths place horizontally, with and without regrouping • Subtracts decimals to the hundredths place (same number of digits) with regrouping • Subtracts decimals to the thousandths place, vertically, with and without regrouping • Subtracts decimals through the hundred-thousandths place, vertically • Computes the value of multiple bills and coins (addition/subtraction only) • Computes money problems with multiple operations (addition/subtraction only) • Computes addition and subtraction on multiple-step real-world problems involving money
	<p>RIT 211-220:</p> <ul style="list-style-type: none"> • Adds fractions with like denominators, without reducing • Adds fractions with like denominators, with reducing or converting to a mixed fraction • Adds fractions with unlike denominators, without reducing • Adds mixed fractions with like denominators • Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) • Subtracts simple fractions with unlike denominators, without reducing (e.g., halves, quarters, thirds, eighths) • Subtracts fractions with unlike denominators, without reducing • Subtracts mixed fractions with like denominators, with no regrouping 		<p>RIT 191-200:</p> <ul style="list-style-type: none"> • Subtracts fractions with like denominators, without reducing • Solves real-world 1-step problems involving addition and subtraction of fractions with like denominators • Adds money with regrouping • Adds decimals to the hundredths place (same number of digits) • Adds decimals to the hundredths place in vertical format (not same number of digits) • Adds decimals to the thousandths place vertically, with and without regrouping • Subtracts decimals to the hundredths place (same number of digits) without regrouping • Subtracts decimals to the hundredths place (same number of digits) with regrouping

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	<ul style="list-style-type: none"> Subtracts decimals to the thousandths place, vertically, with and without regrouping Computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Solves real-world problems involving decimals (not money) using addition and subtraction
	<p>RIT 181-190:</p> <ul style="list-style-type: none"> Adds money with regrouping Adds decimals to the hundredths place (same number of digits) Subtracts decimals to the hundredths place (same number of digits) without regrouping Computes 1 operation on addition or subtraction real world problems involving money up to \$5.00 Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only)
	<p>RIT 171-180:</p> <ul style="list-style-type: none"> Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 Multiplies basic facts to 10 x 10 vertically
	<p>RIT 161-170:</p> <ul style="list-style-type: none"> Adds money vertically, with no regrouping

Lesson Title:

Standard/Concept for All:

For Students Ready for a Challenge:

Lesson/Activity:

Resources:

Means of Assessment:

For Most Students:

Lesson/Activity:

Resources:

Means of Assessment:

For Students Needing Extra Support:

Lesson/Activity:

Resources:

Means of Assessment:

Closure/Summary for All:

