



**Interact Middle School Library**  
**Grades: 5, 6, 7, 8**  
**States: Common Core State Standards**

Interact Middle School Library: FRACTIONS, DECIMALS, AND PERCENT: A Squared Away Unit  
 Summary: Through team activities and exercises using calculators, students determine how the fractions, decimals and percent are related. (9781560043843-INT847)

**Common Core State Standards**

**Language Arts**

Grade: 5 - Adopted 2010

<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.RI.5</b>	<b>Reading Standards for Informational Text</b>
<b>CATEGORY / CLUSTER</b>		Integration of Knowledge and Ideas
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.RI.5.7</b>	Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.RI.5.8</b>	Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point(s).
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.RI.5.9</b>	Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.RI.5</b>	<b>Reading Standards for Informational Text</b>
<b>CATEGORY / CLUSTER</b>		Range of Reading and Level of Text Complexity
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.RI.5.10</b>	By the end of the year, read and comprehend informational texts, including history/social studies, science, and technical texts, at the high end of the grades 4-5 text complexity band independently and proficiently.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.RF.5</b>	<b>Reading Standards: Foundational Skills</b>
<b>CATEGORY / CLUSTER</b>		Fluency
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.RF.5.4</b>	Read with sufficient accuracy and fluency to support comprehension.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.RF.5.4a</b>	Read on-level text with purpose and understanding.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.5</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Text Types and Purposes
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.5.2</b>	Write informative/explanatory texts to examine a topic and convey ideas and information clearly.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.W.5.2b</b>	Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.5</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Production and Distribution of Writing

STANDARD	CCSS.ELA-Literacy.W.5.4	Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1-3 above.)
STRAND / DOMAIN	CCSS.ELA-Literacy.W.5	Writing Standards
CATEGORY / CLUSTER		Research to Build and Present Knowledge
STANDARD	CCSS.ELA-Literacy.W.5.7	Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.
STANDARD	CCSS.ELA-Literacy.W.5.8	Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.5	Writing Standards
CATEGORY / CLUSTER		Research to Build and Present Knowledge
STANDARD	CCSS.ELA-Literacy.W.5.9	Draw evidence from literary or informational texts to support analysis, reflection, and research.
EXPECTATION	CCSS.ELA-Literacy.W.5.9b	Apply grade 5 reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point[s]").
STRAND / DOMAIN	CCSS.ELA-Literacy.W.5	Writing Standards
CATEGORY / CLUSTER		Range of Writing
STANDARD	CCSS.ELA-Literacy.W.5.10	Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.
STRAND / DOMAIN	CCSS.ELA-Literacy.SL.5	Speaking and Listening Standards
CATEGORY / CLUSTER		Comprehension and Collaboration
STANDARD	CCSS.ELA-Literacy.SL.5.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
EXPECTATION	CCSS.ELA-Literacy.SL.5.1a	Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.
EXPECTATION	CCSS.ELA-Literacy.SL.5.1b	Follow agreed-upon rules for discussions and carry out assigned roles.
EXPECTATION	CCSS.ELA-Literacy.SL.5.1c	Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others.

Grade: 6 - Adopted 2010

STRAND / DOMAIN	CCSS.ELA-Literacy.RI.6	Reading Standards for Informational Text
CATEGORY / CLUSTER		Integration of Knowledge and Ideas
STANDARD	CCSS.ELA-Literacy.RI.6.7	Integrate information presented in different media or formats (e.g., visually, quantitatively) as well as in words to develop a coherent understanding of a topic or issue.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.6	Writing Standards
CATEGORY / CLUSTER		Text Types and Purposes
STANDARD	CCSS.ELA-Literacy.W.6.2	Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection,

		organization, and analysis of relevant content.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.W.6.2b</b>	Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.6</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Production and Distribution of Writing
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.6.4</b>	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1-3 above.)
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.6</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Research to Build and Present Knowledge
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.6.7</b>	Conduct short research projects to answer a question, drawing on several sources and refocusing the inquiry when appropriate.
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.6.8</b>	Gather relevant information from multiple print and digital sources; assess the credibility of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and providing basic bibliographic information for sources.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.6</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Range of Writing
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.6.10</b>	Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.SL.6</b>	<b>Speaking and Listening Standards</b>
<b>CATEGORY / CLUSTER</b>		Comprehension and Collaboration
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.SL.6.1</b>	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 6 topics, texts, and issues, building on others' ideas and expressing their own clearly.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.6.1a</b>	Come to discussions prepared, having read or studied required material; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.6.1b</b>	Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.6.1c</b>	Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under discussion.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.SL.6</b>	<b>Speaking and Listening Standards</b>
<b>CATEGORY / CLUSTER</b>		Presentation of Knowledge and Ideas
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.SL.6.6</b>	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

**Grade: 7 - Adopted 2010**

<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.RI.7</b>	<b>Reading Standards for Informational Text</b>
<b>CATEGORY / CLUSTER</b>		Key Ideas and Details
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.RI.7.3</b>	Analyze the interactions between individuals, events, and ideas in a text (e.g., how ideas influence individuals or events, or how individuals influence ideas or events).

<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.7</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Text Types and Purposes
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.7.2</b>	Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.W.7.2b</b>	Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.7</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Production and Distribution of Writing
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.7.4</b>	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1-3 above.)
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.7</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Research to Build and Present Knowledge
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.7.7</b>	Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation.
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.7.8</b>	Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.7</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Range of Writing
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.7.10</b>	Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.SL.7</b>	<b>Speaking and Listening Standards</b>
<b>CATEGORY / CLUSTER</b>		Comprehension and Collaboration
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.SL.7.1</b>	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 7 topics, texts, and issues, building on others' ideas and expressing their own clearly.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.7.1a</b>	Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.7.1b</b>	Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.7.1c</b>	Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.7.1d</b>	Acknowledge new information expressed by others and, when warranted, modify their own views.

**Grade: 8 - Adopted 2010**

<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.8</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Text Types and Purposes
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.8.2</b>	Write informative/explanatory texts to examine a topic and

		convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.W.8.2b</b>	Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.8</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Production and Distribution of Writing
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.8.4</b>	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1-3 above.)
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.8</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Research to Build and Present Knowledge
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.8.7</b>	Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.8.8</b>	Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.W.8</b>	<b>Writing Standards</b>
<b>CATEGORY / CLUSTER</b>		Range of Writing
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.W.8.10</b>	Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.
<b>STRAND / DOMAIN</b>	<b>CCSS.ELA-Literacy.SL.8</b>	<b>Speaking and Listening Standards</b>
<b>CATEGORY / CLUSTER</b>		Comprehension and Collaboration
<b>STANDARD</b>	<b>CCSS.ELA-Literacy.SL.8.1</b>	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.8.1a</b>	Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.8.1b</b>	Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.8.1c</b>	Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.
<b>EXPECTATION</b>	<b>CCSS.ELA-Literacy.SL.8.1d</b>	Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.

## Mathematics

Grade: 5 - Adopted 2010

<b>STRAND / DOMAIN</b>	<b>CCSS.Math.Practice</b>	<b>Mathematical Practices</b>
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP1</b>	Make sense of problems and persevere in solving them.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP2</b>	Reason abstractly and quantitatively.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP3</b>	Construct viable arguments and critique the reasoning of

CLUSTER		others.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP5	Use appropriate tools strategically.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP6	Attend to precision.
STRAND / DOMAIN	CCSS.Math.Content.5.NBT	Number and Operations in Base Ten
CATEGORY / CLUSTER	CCSS.Math.Content.5.NBT.A	Understand the place value system.
STANDARD	CCSS.Math.Content.5.NBT.A.3	Read, write, and compare decimals to thousandths.
EXPECTATION	CCSS.Math.Content.5.NBT.A.3a	Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.92 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$ .
STRAND / DOMAIN	CCSS.Math.Content.5.NF	Number and Operations--Fractions
CATEGORY / CLUSTER	CCSS.Math.Content.5.NF.A	Use equivalent fractions as a strategy to add and subtract fractions.
STANDARD	CCSS.Math.Content.5.NF.A.2	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result $2/5 + 1/2 = 3/7$ , by observing that $3/7 < 1/2$ .
STRAND / DOMAIN	CCSS.Math.Content.5.NF	Number and Operations--Fractions
CATEGORY / CLUSTER	CCSS.Math.Content.5.NF.B	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
STANDARD	CCSS.Math.Content.5.NF.B.3	Interpret a fraction as division of the numerator by the denominator ( $a/b = a \div b$ ). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem. For example, interpret $3/4$ as the result of dividing 3 by 4, noting that $3/4$ multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people each person has a share of size $3/4$ . If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?

Grade: 6 - Adopted 2010

STRAND / DOMAIN	CCSS.Math.Practice	Mathematical Practices
CATEGORY / CLUSTER	CCSS.Math.Practice.MP1	Make sense of problems and persevere in solving them.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP2	Reason abstractly and quantitatively.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP3	Construct viable arguments and critique the reasoning of others.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP5	Use appropriate tools strategically.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP6	Attend to precision.
STRAND / DOMAIN	CCSS.Math.Content.6.RP	Ratios and Proportional Relationships
CATEGORY / CLUSTER	CCSS.Math.Content.6.RP.A	Understand ratio concepts and use ratio reasoning to solve problems.
STANDARD	CCSS.Math.Content.6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.
EXPECTATION	CCSS.Math.Content.6.RP.A.3c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means $30/100$ times the quantity); solve problems involving finding the whole, given a part and the percent.

## Grade: 7 - Adopted 2010

<b>STRAND / DOMAIN</b>	<b>CCSS.Math.Practice</b>	<b>Mathematical Practices</b>
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP1</b>	Make sense of problems and persevere in solving them.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP2</b>	Reason abstractly and quantitatively.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP3</b>	Construct viable arguments and critique the reasoning of others.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP5</b>	Use appropriate tools strategically.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP6</b>	Attend to precision.
<b>STRAND / DOMAIN</b>	<b>CCSS.Math.Content.7.NS</b>	<b>The Number System</b>
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Content.7.NS.A</b>	Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
<b>STANDARD</b>	<b>CCSS.Math.Content.7.NS.A.1</b>	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.
<b>EXPECTATION</b>	<b>CCSS.Math.Content.7.NS.A.1b</b>	Understand $p + q$ as the number located a distance $ q $ from $p$ , in the positive or negative direction depending on whether $q$ is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.
<b>EXPECTATION</b>	<b>CCSS.Math.Content.7.NS.A.1c</b>	Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$ . Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.
<b>EXPECTATION</b>	<b>CCSS.Math.Content.7.NS.A.1d</b>	Apply properties of operations as strategies to add and subtract rational numbers.
<b>STRAND / DOMAIN</b>	<b>CCSS.Math.Content.7.NS</b>	<b>The Number System</b>
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Content.7.NS.A</b>	Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
<b>STANDARD</b>	<b>CCSS.Math.Content.7.NS.A.2</b>	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
<b>EXPECTATION</b>	<b>CCSS.Math.Content.7.NS.A.2a</b>	Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.
<b>EXPECTATION</b>	<b>CCSS.Math.Content.7.NS.A.2c</b>	Apply properties of operations as strategies to multiply and divide rational numbers.
<b>EXPECTATION</b>	<b>CCSS.Math.Content.7.NS.A.2d</b>	Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.
<b>STRAND / DOMAIN</b>	<b>CCSS.Math.Content.7.NS</b>	<b>The Number System</b>
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Content.7.NS.A</b>	Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
<b>STANDARD</b>	<b>CCSS.Math.Content.7.NS.A.3</b>	Solve real-world and mathematical problems involving the four operations with rational numbers.
<b>STRAND / DOMAIN</b>	<b>CCSS.Math.Content.7.EE</b>	<b>Expressions and Equations</b>
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Content.7.EE.B</b>	Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

<b>STANDARD</b>	<b>CCSS.Math.Content.7.EE.B.3</b>	Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional $\frac{1}{10}$ of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar $9\frac{3}{4}$ inches long in the center of a door that is $27\frac{1}{2}$ inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.
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**Grade: 8 - Adopted 2010**

<b>STRAND / DOMAIN</b>	<b>CCSS.Math.Practice</b>	<b>Mathematical Practices</b>
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP1</b>	Make sense of problems and persevere in solving them.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP2</b>	Reason abstractly and quantitatively.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP3</b>	Construct viable arguments and critique the reasoning of others.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP5</b>	Use appropriate tools strategically.
<b>CATEGORY / CLUSTER</b>	<b>CCSS.Math.Practice.MP6</b>	Attend to precision.