



Corrective Mathematics

Common Core State Standards for Grade 6	Lesson Reference
Ratios and Proportional Relationships 6.RP	
Understand ratio concepts and use ratio reasoning to solve problems.	
6.RP.1. Understand the concept of a ratio and use ratio language to describe a ratio	
relationship between two quantities. For example, "The ratio of wings to beaks in the bird	
house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote	
candidate A received, candidate C received nearly 3 votes."	
6.RP.2. Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$ and	
use rate language in the context of a ratio relationship. For example, "This recipe has a	
ratio of 3 cups of flour to 4 cups of sugar, so there is 3⁄4 cup of flour for each cup of sugar."	
"We paid \$75 for 15 hamburgers, which is a rate of \$15 per hamburger."	
6.RP.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	
6.RP.3a. Make tables of equivalent ratios relating quantities with whole-number	
measurements, find missing values in the tables, and plot the pairs of values on the	
coordinate plane. Use tables to compare ratios.	
6.RP.3b. Solve unit rate problems including those involving unit pricing and constant	
speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns	
could be mowed in 35 hours? At what rate were lawns being mowed?	
6.RP.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.	
6.RP.3d. Use ratio reasoning to convert measurement units; manipulate and transform	
units appropriately when multiplying or dividing quantities.	

The Number System 6.NS	The Number System 6.NS	
Apply and extend previous understandings of multiplication and division to divide fra	ctions by fractions.	
6.NS.1 . Interpret and compute quotients of fractions, and solve word problems involving	Fractions-Decimals-Percents, TPB:	
division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to about the quatient use the relationship between multiplication and	(Lesson.Exercise) 1.2, 2.5, 3.4, 4.1, 5.1, 6.1, 7.1,	
	8.1, 9.1, 10.1, 11.1, 12.2, 13.3, 14.2, 15.1, 16.1,	
visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $\frac{3}{4}$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d)$	17.1, 18.1, 19.1, 20.1, 20.2, 21.1, 21.2, 22.1,	
$= ad/bc.)$ How much chocolate will each person get if 3 people share $\frac{1}{2}$ Ib of chocolate	22.2, 23.1, 23.2, 24.1, 24.2, 25.1, 26.1, 26.2,	
equally? How many ¾-cup servings are in 2/3 of a cup of yogurt? How wide is a	27.1, 28.1, 28.2, 29.1, 30.1, 31.1, 32.1, 33.1,	
rectangular strip of land with length ¾ mi and area ½ square mi?	34.1, 35.1, 38.1, 40.1	
	Fractions-Decimals-Percents, WB:	
	(Lesson.Exercise) 3.2, 4.1, 5.1, 6.1, 7.1, 8.1, 9.1,	
	10.1, 11.1, 16.1, 17.1, 18.1, 19.1, 20.1, 21.1,	
	22.1, 22.2, 23.1, 23.2, 24.1, 24.2, 25.1, 26.1,	
	27.1, 28.1, 29.1, 30.1, 31.1, 32.1, 33.1, 34.1,	
	35.1, 38.1, 40.1	
Compute fluently with multi-digit numbers and find common factors and multiples.		
6.NS.2. Fluently divide multi-digit numbers using the standard algorithm.	Division, TPB: (Lesson.Exercise) 6.3-6, 7.2-5,	
	8.2-4, 9.2-6, 10.3-6, 11.1-7, 12.1-7, 13.1-3,	
	14.3-5, 15.3-5, 16.3, 16.4, 17.5-7, 18.5, 19.3,	
	20.3, 21.5, 21.6, 22.5, 22.6, 23.4-6, 24.4-6, 25.4,	
	25.5, 26.4, 27.5, 28.4, 29.5, 30.6, 30.7, 31.5,	
	32.3, 32.4, 33.6, 34.7, 35.4, 35.5, 36.4-6, 37.6,	
	37.7, 38.4, 38.5, 39.3, 39.5, 39.7, 39.8, 40.6-9,	
	41.6-8, 42.4, 42.5, 43.4, 43.6, 44.5, 44.6, 45.6,	
	45.7, 46.6, 47.6, 47.7, 50.3, 50.6, 51.6, 52.4,	
	53.3, 54.4, 54.6, 55.6, 56.4	
	Division, WB: (Lesson.Exercise) 6.3, 6.4, 7.2,	
	7.3, 8.2, 9.2-4, 10.3-5, 11.1-5, 12.1-5, 13.1,	
	14.3, 15.3, 15.4, 16.2, 16.3, 17.4, 17.5, 18.4,	
	19.2, 20.2, 21.3, 22.3, 23.3-5, 24.2-4, 25.2, 5.3,	
	26.3, 27.4, 28.4, 29.4, 30.5, 30.6, 31.3, 32.3,	

 32.4, 33.5, 34.6, 35.3, 35.4, 36.3, 36.5, 37.5, 38.3, 39.2, 39.3, 39.5, 40.5-7, 41.5-7, 52.3, 42.4, 43.3, 43.5, 44.4, 44.5, 45.5, 45.6, 46.5, 47.5, 47.6, 50.2, 50.5, 51.5, 52.3, 53.3, 54.3, 54.5, 55.5, 56.3, 57.6, 58.5, 59.3, 60.3, 61.3, 62.3, 63.2, 64.3, 65.2 6.NS.3. Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. Fractions-Decimals-Percents, TPB: (Lesson-Exercise) 38.6, 39.5, 39.6, 40.5, 40.6, 41.4, 42.3-5, 43.3, 43.4, 44.3-5, 45.2-5, 46.2-5, 47.2-5, 48.2-5, 49.2-5, 50.3-6, 51.2-5, 52.2-6, 53.2-7, 54.2-4, 55.2-6, 56.2-5, 57.2, 57.3, 57.5, 58.1, 58.2, 59.1, 59.3, 60.1, 60.2, 60.6, 61.1, 61.6, 62.1, 63.2, 64.1, 64.4, 65.1, 65.4, 66.2, 67.1, 67.4, 68.1, 69.2, 69.5, 70.4 Fractions-Decimals-Percents, WB: (Lesson-Exercise) 39.5, 40.5, 41.4, 41.5, 42.3, 42.5, 44.3-5, 44
43.3, 43.5, 44.4, 44.5, 45.5, 45.6, 46.5, 47.5, 47.6, 50.2, 50.5, 51.5, 52.3, 53.3, 54.3, 54.5, 55.5, 56.3, 57.6, 58.5, 59.3, 60.3, 61.3, 62.3, 63.2, 64.3, 65.2 Fractions-Decimals-Percents, TPB: (Lesson.Exercise) 38.6, 39.5, 39.6, 40.5, 40.6, 41.4, 42.3-5, 43.3, 43.4, 44.3-5, 45.2-5, 46.2-5, 47.2-5, 48.2-5, 49.2-5, 50.3-6, 51.2-5, 52.2-6, 53.2-7, 54.2-4, 55.2-6, 56.2-5, 57.2, 57.3, 57.5, 58.1, 58.2, 59.1, 59.3, 60.1, 60.2, 60.6, 61.1, 61.6, 62.1, 63.2, 64.1, 64.4, 65.1, 65.4, 66.2, 67.1, 67.4, 68.1, 69.2, 69.5, 70.4 Fractions-Decimals-Percents, WB: (Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
47.6, 50.2, 50.5, 51.5, 52.3, 53.3, 54.3, 54.5, 55.5, 56.3, 57.6, 58.5, 59.3, 60.3, 61.3, 62.3, 63.2, 64.3, 65.2 6.NS.3. Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. Fractions-Decimals-Percents, TPB: (Lesson.Exercise) 38.6, 39.5, 39.6, 40.5, 40.6, 41.4, 42.3-5, 43.3, 43.4, 44.3-5, 45.2-5, 46.2-5, 47.2-5, 48.2-5, 49.2-5, 50.3-6, 51.2-5, 52.2-6, 53.2-7, 54.2-4, 55.2-6, 56.2-5, 57.2, 57.3, 57.5, 58.1, 58.2, 59.1, 59.3, 60.1, 60.2, 60.6, 61.1, 61.6, 62.1, 63.2, 64.1, 64.4, 65.1, 65.4, 66.2, 67.1, 67.4, 68.1, 69.2, 69.5, 70.4 Fractions-Decimals-Percents, WB: (Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
55.5, 56.3, 57.6, 58.5, 59.3, 60.3, 61.3, 62.3, 63.2, 64.3, 65.2 6.NS.3. Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. Fractions-Decimals-Percents, TPB: (Lesson.Exercise) 38.6, 39.5, 39.6, 40.5, 40.6, 41.4, 42.3-5, 43.3, 43.4, 44.3-5, 45.2-5, 46.2-5, 47.2-5, 48.2-5, 49.2-5, 50.3-6, 51.2-5, 52.2-6, 53.2-7, 54.2-4, 55.2-6, 56.2-5, 57.2, 57.3, 57.5, 58.1, 58.2, 59.1, 59.3, 60.1, 60.2, 60.6, 61.1, 61.6, 62.1, 63.2, 64.1, 64.4, 65.1, 65.4, 66.2, 67.1, 67.4, 68.1, 69.2, 69.5, 70.4 Fractions-Decimals-Percents, WB: (Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
63.2, 64.3, 65.2 6.NS.3. Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. Fractions-Decimals-Percents, TPB: (Lesson.Exercise) 38.6, 39.5, 39.6, 40.5, 40.6, 41.4, 42.3-5, 43.3, 43.4, 44.3-5, 45.2-5, 46.2-5, 47.2-5, 48.2-5, 49.2-5, 50.3-6, 51.2-5, 52.2-6, 53.2-7, 54.2-4, 55.2-6, 56.2-5, 57.2, 57.3, 57.5, 58.1, 58.2, 59.1, 59.3, 60.1, 60.2, 60.6, 61.1, 61.6, 62.1, 63.2, 64.1, 64.4, 65.1, 65.4, 66.2, 67.1, 67.4, 68.1, 69.2, 69.5, 70.4 Fractions-Decimals-Percents, WB: [Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
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algorithm for each operation. (Lesson.Exercise) 38.6, 39.5, 39.6, 40.5, 40.6, 41.4, 42.3-5, 43.3, 43.4, 44.3-5, 45.2-5, 46.2-5, 47.2-5, 48.2-5, 49.2-5, 50.3-6, 51.2-5, 52.2-6, 53.2-7, 54.2-4, 55.2-6, 56.2-5, 57.2, 57.3, 57.5, 58.1, 58.2, 59.1, 59.3, 60.1, 60.2, 60.6, 61.1, 61.6, 62.1, 63.2, 64.1, 64.4, 65.1, 65.4, 66.2, 67.1, 67.4, 68.1, 69.2, 69.5, 70.4 Fractions-Decimals-Percents, WB: (Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
41.4, 42.3-5, 43.3, 43.4, 44.3-5, 45.2-5, 46.2-5, 47.2-5, 48.2-5, 49.2-5, 50.3-6, 51.2-5, 52.2-6, 53.2-7, 54.2-4, 55.2-6, 56.2-5, 57.2, 57.3, 57.5, 58.1, 58.2, 59.1, 59.3, 60.1, 60.2, 60.6, 61.1, 61.6, 62.1, 63.2, 64.1, 64.4, 65.1, 65.4, 66.2, 67.1, 67.4, 68.1, 69.2, 69.5, 70.4 Fractions-Decimals-Percents, WB: (Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
47.2-5, 48.2-5, 49.2-5, 50.3-6, 51.2-5, 52.2-6, 53.2-7, 54.2-4, 55.2-6, 56.2-5, 57.2, 57.3, 57.5, 58.1, 58.2, 59.1, 59.3, 60.1, 60.2, 60.6, 61.1, 61.6, 62.1, 63.2, 64.1, 64.4, 65.1, 65.4, 66.2, 67.1, 67.4, 68.1, 69.2, 69.5, 70.4 Fractions-Decimals-Percents, WB: (Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
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Fractions-Decimals-Percents, WB: (Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
(Lesson.Exercise) 39.5, 40.5, 41.4, 41.5, 42.3,
42.4, 43.4, 43.5, 44.3, 44.4, 45.2-4, 46.2-4, 47.2-
4, 48.2-4, 49.2-5, 50.3-5, 51.2-5, 52.2-4, 53.2-5,
54.2-4, 55.2-4, 56.2, 56.3, 57.2-4, 58.1, 58.2,
59.1, 59.3, 60.2, 60.5, 61.1, 61.4, 62.1, 63.2,
64.1, 64.3, 65.1, 65.3, 66.2, 67.1, 67.3, 68.1,
69.2, 69.5, 70.4
6.NS.4. Find the greatest common factor of two whole numbers less than or equal to 100 Fractions-Decimals-Percents, TPB:
and the least common multiple of two whole numbers less than or equal to 12. Use the (Lesson.Exercise) 1.3, 2.6, 3.3, 3.5, 4.2-5, 5.2-4,
distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express
36 + 8 as 4 (9 + 2). 12.1, 12.3, 12.4, 13.1, 13.2, 14.1, 14.3, 15.2,
18.3, 19.2, 20.3, 21.4, 22.4, 24.3, 25.3, 27.3,
28.5, 29.4, 31.3
Fractions-Decimals-Percents, WB:
(Lesson.Exercise) 1.1, 2.3, 3.3, 4.2, 5.2, 6.2, 6.3,
7.2, 7.3, 8.2, 8.3, 9.2, 9.3, 10.2, 10.3, 11.2, 12.1,

	12.2, 12.3, 13.1, 13.3, 14.1, 14.2, 15.1, 18.3,
	19.2, 20.2, 21.2, 22.3, 24.3, 25.3, 27.2, 28.3,
	29.3, 31.3
Apply and extend previous understandings of numbers to the system of rational num	· ·
6.NS.5. Understand that positive and negative numbers are used together to describe	
quantities having opposite directions or values (e.g. temperature above/below zero,	
elevation above/below sea level, credits/debits, positive/negative electric charge); use	
positive and negative numbers to represent quantities in real-world contexts, explaining the	
meaning of 0 in each situation.	
6.NS.6. Understand a rational number as a point on the number line. Extend number line	
diagrams and coordinate axes familiar from previous grades to represent points on the line	
and in the plane with negative number coordinates.	
6.NS.6a. Recognize opposite signs of numbers as indicating locations on opposite sides of	
0 on the number line; recognize that the opposite of the opposite of a number is the	
number itself, e.g., $-(-3) = -3$, and that 0 is its own opposite.	
6.NS.6b. Understand signs of numbers in ordered pairs as indicating locations in	
quadrants of the coordinate plane; recognize that when two ordered pairs differ only by	
signs, the location of the points are related by reflections across one or both axes.	
6.NS.6.c. Find and position integers and other rational numbers on a horizontal or vertical	
number line diagram; find and position pairs of integers and other rational numbers on a	
coordinate plane.	
6.NS.7. Understand ordering and absolute value of rational numbers.	
6.NS.7a. Interpret statements of inequality as statements about the relative position of two	
numbers on a number line diagram. For example, interpret -3 > -7 as a statement that -3 is	
located to the right of -7 on a number line oriented from left to right.	
6.NS.7b. Write, interpret, and explain statements of order for rational numbers in real-world	
contexts. For example, write -3° C > -7° C to express the fact that -3° C is warmer than -7°	
С.	
6.NS.7c. Understand the absolute value of a rational number as its distance from 0 on the	
number line; interpret absolute value as magnitude for a positive or negative quantity in a	
real-world situation. For example, for an account balance of -30 dollars, write -30 = 30 to	
describe the size of the debt in dollars.	
6.NS.7d. Distinguish comparisons of absolute value from statements about order. For	
example, recognize that an account balance less than -30 dollars represents a debt	
greater than 30 dollars.	
6.NS.8. Solve real-world and mathematical problems by graphing points in all four	

quadrants of the coordinate plane. Include use of coordinates and absolute value to find	
distances between points with the same first coordinate or the same second coordinate.Expressions and Equations6.EE	
Apply and extend previous understandings of arithmetic to algebraic expressions.	
6.EE.1. Write and evaluate numerical expressions involving whole-number exponents.	
6.EE.2. Write, read, and evaluate expressions in which letters stand for numbers.	
6.EE.2a. Write expressions that record operations with numbers and with letters standing	
for numbers. For example, express the calculation "Subtract y from 5" as 5-y.	
6.EE.2b. Identify parts of an expression using mathematical terms (sum, term, product,	
factor, quotient, coefficient); view one or more parts of an expression as a single entity. For	
example, describe the expression 2 $(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both	
a single entity and a sum of two terms.	
6.EE.2c. Evaluate expressions at specific values of their variables. Include expressions	
that arise from formulas used in real-world problems. Perform arithmetic operations,	
including those involving whole-number exponents, in the conventional order when there	
are no parentheses to specify a particular order (Order of Operations). For example, use	
the formulas $V = s^3$ and $a = 6 s^2$ to find the volume and surface area of a cube with sides of	
length $s = \frac{1}{2}$.	
6.EE.3. Apply the properties of operations to generate equivalent expressions. For	
example, apply the distributive property to the expression $3(2 + x)$ to produce the	
equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to	
produce the equivalent expression 6 $(4x + 3y)$; apply properties of operations to $y + y + y$	
to produce the equivalent expression 3y.	
6.EE.4. Identify when two expressions are equivalent (i.e. when the two expressions name	
the same number regardless of which value is substituted into them). For example, the	
expressions $y + y + y$ and $3y$ are equivalent because they name the same number	
regardless of which number y stands for.	
Reason about and solve one-variable equations and inequalities.	
6.EE.5. Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true?	
Use substitution to determine whether a given number in a specified set makes an	
equation or inequality true.	
6.EE.6. Use variables to represent numbers and write expressions when solving a real-	
world or mathematical problem; understand that a variable can represent an unknown	
number, or, depending on the purpose at hand, any number in a specified set.	
6.EE.7. Solve real-world and mathematical problems by writing and solving equations of	
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the form $x + p = q$ and $px = q$ for cases in which p, q, and x are all nonnegative rational	
numbers.	
6.EE.8. Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition	
in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or x	
< <i>c</i> have infinitely many solutions; represent solutions of such inequalities on number line	
diagrams.	
Represent and analyze quantitative relationships between dependent and independent	t variables.
6.EE.9. Use variables to represent two quantities in a real-world problem that change in	
relationship to one another; write an equation to express one quantity, thought of as the	
dependent variable, in terms of the other quantity, thought of as the independent variable.	
Analyze the relationship between the dependent and independent variables using graphs	
and tables, and relate these to the equation. For example, in a problem involving motion at	
constant speed, list and graph ordered pairs of distances and times, and write the equation	
d = 65t to represent the relationship between distance and time.	
Geometry 6.G	
Solve real-world and mathematical problems involving area, surface area, and volume	
6.G.1. Find the area of right triangles, other triangles, special quadrilaterals, and polygons	
by composing into rectangles or decomposing into other shapes; apply these techniques in	
the context of solving real-world and mathematical problems.	
6.G.2. Find the volume of a right rectangular prism with fractional edge lengths by packing	
it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is	
the same as would be found by multiplying the edge lengths of the prism. Apply the	
formulas $V = I w h$ and $V = b h$ to find the volumes of right rectangular prisms with	
fractional edge lengths in the context of solving real-world mathematical problems.	
6.G.3. Draw polygons in the coordinate plane given coordinates for the vertices; use	
coordinates to find the length of a side joining points with the same first coordinate or the	
same second coordinate. Apply these techniques in the context of solving real-world and	
mathematical problems.	
6.G.4 . Represent three-dimensional figures using nets made up of rectangles and	
triangles, and use the nets to find the surface area of these figures. Apply these techniques	
in the context of solving real-world and mathematical problems.	
Statistics and Probability 6.SP	
Develop understanding of statistical variability	
6.SP.1. Recognize a statistical question as one that anticipates variability in the data	
related to the question and accounts for it in the answer. For example, "How old am I?" is	
not a statistical question, but "How old are the students in my school?" is a statistical	

question because one anticipates variability in students' ages.	
6.SP.2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.	
6.SP.3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	
Summarize and describe distributions.	
6.SP.4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots	
6.SP.5. Summarize numerical data sets in relation to their context, such as by:	
6.SP.5a. Reporting the number of observations.	
6.SP.5b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.	
6.SP.5c. Giving quantities measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.	
6.SP.5d. Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.	