

Any standard **highlighted in yellow** has been determined by our WCSD teachers, district and state experts as essential for students to master.

Strand: Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

Standard 7.NS.1: 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.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
<ul style="list-style-type: none"> • Describe situations in which opposite quantities combine to make 0. • 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. • Interpret sums of rational numbers by describing real-world contexts. • Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. • Apply properties of operations as strategies to add and subtract rational numbers. 	<ul style="list-style-type: none"> • integer, rational number, additive inverse, commutative property, associative property 	<ul style="list-style-type: none"> • Write a story that would result in the problem: $(-3) + 6 + 5.7 - 8$ • Model the solution in two different ways. 	<ul style="list-style-type: none"> • District CFA Number System Form A • District CFA Number System Form B • District CFA Number System Form C

<p>Strand: Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.</p>			
<p>Standard 7.NS.2: Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.</p>			
<p>Learning Targets</p> <ul style="list-style-type: none"> 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. Interpret products of rational numbers in real-world contexts. Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers is a rational number. Apply properties of operations as strategies to multiply and divide rational numbers. Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0's or eventually repeats. 	<p>Academic Vocabulary & Notation</p> <ul style="list-style-type: none"> distributive property, integer, terminating decimal, rational number, commutative property, associative property, repeating decimals 	<p>Question Stems</p> <ul style="list-style-type: none"> Demonstrate how you can change a fraction to a decimal using long division. Why is this problem a challenge? How is this similar to.....? 	<p>Possible Assessments</p> <ul style="list-style-type: none"> District CFA Number System Form A District CFA Number System Form B District CFA Number System Form C
<p>Standard 7.NS.3: Solve real-world and mathematical problems involving the four operations with rational numbers.</p>			
<p>Learning Targets</p> <ul style="list-style-type: none"> Model and solve real-world problems using numbers and operations. Explain the solution. 	<p>Academic Vocabulary & Notation</p> <ul style="list-style-type: none"> sum, difference, product, quotient, difference 	<p>Question Stems</p> <ul style="list-style-type: none"> Create three real-world word problems that require negative numbers to solve. Explain the solution in context. 	<p>Possible Assessments</p> <ul style="list-style-type: none"> District CFA Number System Form A or Form B or Form C