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| **MT: The Number System** |
|  | **Learn** | **Practice** |
| **Target 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. (M.7.NS.1) | * <http://quizlet.com/39674278/the-number-system-7ns1-flash-cards/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-add-sub-negatives/v/adding-integers-with-different-signs>
* <http://learnzillion.com/lessons/2458-determine-the-values-of-opposite-numbers-using-a-number-line>
* <http://learnzillion.com/lessons/2567-understand-the-concept-of-additive-inverse>
* <http://learnzillion.com/lessons/2665-use-additive-inverses-to-make-0>
* <http://learnzillion.com/lessons/2740-determine-which-values-combine-to-make-0>
* <http://learnzillion.com/lessons/2424-create-zero-pairs-using-integer-chips>
* <http://www.youtube.com/embed/p7ZbYnHWSSQ>
* <http://www.ck12.org/section/Adding-Integers/>
* <http://learnzillion.com/lessons/2703-add-integers-with-the-same-sign-using-number-lines>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-add-sub-negatives/v/adding-and-subtracting-negative-number-examples>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-absolute-value/v/constructing-and-interpreting-absolute-value>
* <http://learnzillion.com/lessons/2458-determine-the-values-of-opposite-numbers-using-a-number-line>
* <http://learnzillion.com/lessons/2567-understand-the-concept-of-additive-inverse>
* <http://learnzillion.com/lessons/2383-combine-opposite-numbers-on-a-number-line>
* <http://learnzillion.com/lessons/2439-combine-opposite-rational-numbers-on-a-number-line>
* <http://www.youtube.com/embed/p7ZbYnHWSSQ>
* <http://www.ck12.org/section/Adding-Integers/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-add-sub-negatives/v/negative-number-word-problems-1>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-absolute-value/v/constructing-and-interpreting-absolute-value>
* <http://learnzillion.com/lessons/2665-use-additive-inverses-to-make-0>
* <http://learnzillion.com/lessons/3044-find-the-additive-inverse-using-an-equation>
* <http://learnzillion.com/lessons/2670-add-integers-with-opposite-signs-using-a-number-line>
* <http://www.youtube.com/embed/pKPRjchIRC8>
 | * <http://www.ixl.com/math/grade-7/absolute-value-and-opposite-integers>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-add-sub-negatives/e/adding_negative_numbers>
* <http://www.sheppardsoftware.com/mathgames/mathlines/mathlines_integerMinus_1.htm>
* <http://www.ixl.com/math/grade-6/add-integers-using-counters>
* <http://www.mangahigh.com/en_us/games/pinatafever?localeset=en_us>
* <http://www.iboard.co.uk/iwb/Twelve-Games-of-Christmas-Presents-in-the-Snow-2014>
* <http://www.arcademicskillbuilders.com/games/orbit-integers/orbit-integers.html>
* <http://www.mathsisfun.com/numbers/casey-runner.html>
* <http://mathsnacks.com/media/swf/pearldiver.swf>
* <http://www.sheppardsoftware.com/mathgames/integers/FS_NumberLine_int_minus.htm>
* <http://www.funbrain.com/cgi-bin/nl.cgi?A1=s&A2=4>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-add-sub-negatives/e/negative_number_word_problems>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-absolute-value/e/constructing-and-interpreting-absolute-value>
* <http://www.sheppardsoftware.com/mathgames/mathlines/mathlines_integerMinus_1.htm>
* <http://labyrinth.thinkport.org/runtime/shell/index.php>
* <http://www.ixl.com/math/grade-8/add-and-subtract-integers-word-problems>
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| **Target 2:** Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. (M.7.NS.2) | * <http://quizlet.com/39674423/the-number-system-7ns2-flash-cards/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-mult-div-negatives/v/multiplying-positive-and-negative-numbers>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-mult-div-negatives/v/why-a-negative-times-a-negative-is-a-positive>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-mult-div-negatives/v/why-a-negative-times-a-negative-makes-intuitive-sense>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-mult-div-negatives/v/multiplying-negative-real-numbers>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-mult-div-negatives/v/dividing-positive-and-negative-numbers>
* <http://learnzillion.com/lessons/1644-compare-fraction-and-decimal-division>
* <http://www.mathsisfun.com/multiplying-negatives.html>
* <http://learnzillion.com/lessons/2719-solve-realworld-problems-using-rational-numbers>
* <http://www.mathsisfun.com/multiplying-negatives.html>
* <http://learnzillion.com/lessons/1397-rewrite-multiplication-problems-using-the-commutative-property>
* <http://learnzillion.com/lessons/1409-rewrite-division-problems-using-the-commutative-property>
* <http://learnzillion.com/lessons/1410-rewrite-multiplication-problems-with-rational-numbers-using-the-associative-property>
* <http://www.mathsisfun.com/associative-commutative-distributive.html>
* <http://www.virtualnerd.com/common-core/grade-7/7_NS-number-system/A/2/2b/dividing-by-zero-problems>
* <http://learnzillion.com/lessons/1419-rewrite-multiplication-problems-with-rational-numbers-using-the-commutative-and-associative-properties>
* <http://learnzillion.com/lessons/1420-rewrite-problems-with-rational-numbers-using-different-properties-of-multiplication-and-division>
* <http://www.youtube.com/embed/w1mvShHgOSI>
* <http://www.youtube.com/embed/DELKq2y89SU>
* <http://www.ck12.org/algebra/When-to-Use-the-Distributive-Property/lecture/Distributive-Property-Example-1/r1/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-fracs-to-decimals/v/converting-fractions-to-decimals-example>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-fracs-to-decimals/v/converting-fractions-to-decimals--ex1>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-fracs-to-decimals/v/converting-fractions-to-decimals--ex2>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-fracs-to-decimals/e/converting_fractions_to_decimals>
* <http://learnzillion.com/lessons/2819-convert-unit-fractions-to-a-terminating-decimals>
* <http://learnzillion.com/lessons/2820-convert-unit-fractions-into-repeating-decimals>
* <http://learnzillion.com/lessons/2718-convert-fractions-and-mixed-numbers-to-decimals>
* <http://www.ck12.org/section/Fractions-and-Decimals/>
* <http://www.mathsisfun.com/long_division.html>
* <http://www.mathsisfun.com/numbers/long-division-animation.html>
* <http://www.mathsisfun.com/converting-fractions-decimals.html>
* <http://www.virtualnerd.com/common-core/grade-7/7_NS-number-system/A/2/2a/rational-number-definition>
 | * <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-mult-div-negatives/e/multiplying_and_dividing_negative_numbers>
* <http://www.xpmath.com/forums/games/multint144.swf>
* <http://www.ixl.com/math/grade-7/multiply-and-divide-rational-numbers>
* <http://www.arcademicskillbuilders.com/games/integer-warp/integer-warp.html>
* <http://www.learnalberta.ca/content/mec/flash/index.html?url=Data/1/C/A1C2.swf>
* <http://www.ixl.com/math/grade-7/multiply-and-divide-integers>
* <http://www.math-play.com/multiplying-and-dividing-integers-game.html>
* <http://www.mathplayground.com/percent_shopping.html>
* <http://www.map.mathshell.org/materials/download.php?fileid=1082>
* <http://senseanddollars.thinkport.org/games/home.html>
* <http://www.ixl.com/math/grade-7/multiply-decimals-and-whole-numbers-word-problems>
* <http://www.ixl.com/math/grade-8/multiply-and-divide-rational-numbers-word-problems>
* <http://www.mathopolis.com/questions/q.php?id=332&site=1&ref=/associative-commutative-distributive.html&qs=332_1588_1589_1590_333_1991_2422_2423_3172_3173_4639_4643_4647>
* <http://www.ixl.com/math/grade-8/reciprocals-and-multiplicative-inverses>
* <http://www.ixl.com/math/grade-7/properties-of-addition-and-multiplication>
* <http://www.ixl.com/math/grade-7/distributive-property>
* <http://www.ixl.com/math/grade-8/properties-of-addition-and-multiplication>
* <http://www.ixl.com/math/grade-8/distributive-property>
* <http://ntic.educacion.es/w3//recursos/primaria/matematicas/porcentajes/menuu1.html>
* <http://www.mathopolis.com/questions/q.php?id=1645&site=1&ref=/long_division3.html&qs=1645_1646_1647_1648_3441_3442_1649_3443_1650_3444>
* <http://www.mathopolis.com/questions/q.php?id=947&site=1&ref=/converting-fractions-decimals.html&qs=947_1362_948_1361_3487_3488_1363_3489_3490_3491>
 |
| **Target 3:** Solve real-world and mathematical problems involving the four operations with rational numbers. (M.7.NS.3) | * <http://quizlet.com/39674675/the-number-system-7ns3-flash-cards/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers/cc-7th-absolute-value/e/constructing-and-interpreting-absolute-value>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-rational-num-word-probs/v/u09-l1-t2-we4-adding-real-numbers-application>
* <http://learnzillion.com/lessons/2703-add-integers-with-the-same-sign-using-number-lines>
* <http://learnzillion.com/lessons/2904-solve-word-problems-with-rational-numbers>
* <http://www.youtube.com/embed/pKPRjchIRC8>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-rational-num-word-probs/v/rational-number-word-problem-example-2>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-multistep-word-probs/v/multistep-word-problems-example-2>
* <http://learnzillion.com/lessons/2719-solve-realworld-problems-using-rational-numbers>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-rational-num-word-probs/v/rational-number-word-problem-example-3>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-multistep-word-probs/v/multistep-word-problems-example-1>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-multistep-word-probs/v/multistep-word-problems-example-3>
* <http://www.mathsisfun.com/operation-order-bodmas.html>
 | * <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-multistep-word-probs/e/multistep-equations-without-variables>
* <http://www.ixl.com/math/grade-7/add-and-subtract-integers-word-problems>
* <http://www.ixl.com/math/grade-8/add-and-subtract-rational-numbers-word-problems>
* <http://www.mathplayground.com/percent_shopping.html>
* <http://www.ixl.com/math/grade-7/multiply-decimals-and-whole-numbers-word-problems>
* <http://www.ixl.com/math/grade-8/multiply-and-divide-rational-numbers-word-problems>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-rational-num-word-probs/e/rational-number-word-problems>
* <http://www.math-play.com/Integers-Jeopardy/Integers-Jeopardy.html>
* <http://www.map.mathshell.org/materials/download.php?fileid=1042>
* <http://senseanddollars.thinkport.org/games/home.html>
* <http://www.ixl.com/math/grade-7/add-subtract-multiply-and-divide-decimals-word-problems>
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