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| **MT: Ratios and Proportional Relationships** |
|  | **Learn** | **Practice** |
| **Target 1:** Explain what a point (x,y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0,0) and (1,r) where r is the unit rate. (M.7.RP.2d) | * <http://quizlet.com/39672414/ratios-7rp2d-flash-cards/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-rates/v/rate-problem-with-fractions-1>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-rates/v/unit-cost-with-fractions-1>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/v/writing-proportions>
* [http://www.ck12.org/user:bWlyYS5jdmpldEB5YWhvby5jb20./book/7th-grade-final/r2/section/7.1/](http://www.ck12.org/user%3AbWlyYS5jdmpldEB5YWhvby5jb20./book/7th-grade-final/r2/section/7.1/)
* <http://learnzillion.com/lessons/867-find-unit-rates-in-situations-involving-fractions>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-rates/v/unit-cost-with-fractions-1>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-rates/v/multiple-rates-word-problem>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/v/analyzing-and-identifying-proportional-relationships-ex3>
* <http://www.ck12.org/arithmetic/Unit-Rates/rwa/Discount-Clubs/r1/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/v/comparing-proportional-relationships>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/v/writing-proportions>
* <http://learnzillion.com/lessons/3219-determine-the-unit-rate-of-a-proportional-relationship-using-a-graph>
* <http://learnzillion.com/lessons/321>
* <http://www.ck12.org/geometry/Proportion-Properties/lesson/Proportion-Properties/r11/>
* <http://www.ck12.org/arithmetic/Unit-Rates/lecture/Rates-and-Unit-Rates/r1/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-rates/v/multiple-rates-word-problem>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-rates/v/usain-bolt-s-average-speed>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/v/constructing-an-equation-for-a-proportional-relationship>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/v/find-an-unknown-in-a-proportion>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/v/find-an-unknown-in-a-proportion-2>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/v/analyzing-and-identifying-proportional-relationships-ex1>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/v/analyzing-and-identifying-proportional-relationships-ex2>
* <http://learnzillion.com/lessons/3022-describe-the-relationship-between-measures-by-examining-a-graph>
* <http://learnzillion.com/lessons/3216-quantify-the-relationship-of-two-proportional-measures>
* <http://learnzillion.com/lessons/3196-answer-questions-about-a-proportional-relationship-using-a-graph>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/v/analyzing-and-identifying-proportional-relationships-ex1>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/v/analyzing-and-identifying-proportional-relationships-ex2>
* <http://learnzillion.com/lessons/3022-describe-the-relationship-between-measures-by-examining-a-graph>
* <http://learnzillion.com/lessons/3216-quantify-the-relationship-of-two-proportional-measures>
* <http://learnzillion.com/student/lessons/1196-find-a-unit-rate-using-a-graph>
 | * <http://nlvm.usu.edu/en/nav/frames_asid_272_g_4_t_4.html?open=instructions&from=category_g_4_t_4.html>
* <http://www.ixl.com/math/grade-7/compare-ratios-word-problems>
* <http://www.ixl.com/math/grade-7/unit-rates>
* <http://www.ixl.com/math/grade-7/estimate-population-size-using-proportions>
* <http://labyrinth.thinkport.org/runtime/shell/index.php>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/e/proportions_1>
* <http://www.ixl.com/math/grade-7/solve-proportions>
* <http://www.arcademicskillbuilders.com/games/dirt-bike-proportions/dirt-bike-proportions.html>
* <http://smartgraphs-authoring.concord.org/activities/104-fence-painting/student_preview>
* <http://www.ck12.org/assessment/ui/build-20140321162226/views/test.view.new.html?52292686da2cfe08cc3948c6?type=practice&referrer=practice_details&ep=http://www.ck12.org/arithmetic/Unit-Rates/asmtpractice/Unit-Rates-Practice/r1/>
* <http://labyrinth.thinkport.org/runtime/shell/index.php>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-rates/e/rate_problems_2>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/e/constructing-and-comparing-proportional-relationships>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/e/writing_proportions>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/e/proportions_1>
* <http://www.ixl.com/math/grade-7/compare-ratios-word-problems>
* <http://www.ixl.com/math/grade-8/write-an-equation-for-a-proportional-relationship>
* <http://www.ixl.com/math/grade-7/identify-proportional-relationships>
* <http://www.ixl.com/math/grade-6/complete-a-function-table>
* <http://smartgraphs-authoring.concord.org/activities/195-y-mx-b/student_preview>
* <http://www.map.mathshell.org/materials/download.php?fileid=1070>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-proportional-rel/e/analyzing-and-identifying-proportional-relationships>
* <http://www.ixl.com/math/grade-7/identify-proportional-relationships>
* <http://smartgraphs-authoring.concord.org/activities/105-biker-betty/student_preview>
* <http://www.map.mathshell.org/materials/download.php?fileid=1070>
* <http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/proportional-relationships/e/graphing-proportional-relationships>
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| **Target 2:** Use proportional relationships to solve multistep ratio and percent problems. (M.7.RP.3) | * <http://quizlet.com/39673195/ratios-7rp3-flash-cards/>
* <http://www.youtube.com/embed/AM9A7H0-XfI>
* <http://www.ck12.org/na/Solving-Ratio-and-Percent-Problems-Using-Proportional-Relationships---7.RP.3-1/lesson/user%3Ac2ZveDJAb3N3ZWdvLm9yZw../Solving-Ratio-and-Percent-Problems-Using-Proportional-Relationships---7.RP.3/>
* <http://www.ck12.org/section/Percents-and-Proportions/>
* <http://www.ck12.org/arithmetic/Proportions-to-Find-Percent-P/lecture/Example-3-Determine-What-Percent-One-Number-is-of-Another-Using-a-Percent-Proportion/r1/>
* <http://www.ck12.org/arithmetic/Proportions-to-Find-Percent-P/enrichment/Find-the-Percents-Given-the-Parts-and-Whole-Example-2/r1/>
* <http://www.ck12.org/arithmetic/Proportions-to-Find-Percent-P/enrichment/Find-the-Percents-Given-the-Parts-and-Whole-Example-3/r1/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/v/constructing-proportions-to-solve-application-problems>
* <http://learnzillion.com/lessons/3556-estimate-a-percent-value-using-a-bar-model>
* <http://learnzillion.com/lessons/3458-calculate-percent-of-a-number-using-a-proportion-model>
* <http://learnzillion.com/lessons/3611-solve-percent-of-a-number-problems-using-a-proportion-model>
* <http://learnzillion.com/lessons/3507-apply-taxes-tips-and-discounts-using-a-proportion-and-scale-factor>
* <http://learnzillion.com/lessons/3581-calculate-percent-increase-and-decrease-in-context>
* <http://www.ck12.org/section/Percent-of-Change/>
* <http://www.youtube.com/embed/Pv-OZ3UJzMQ>
* <http://www.ck12.org/section/Simple-Interest/>
* <http://www.youtube.com/embed/zG6VkdtQCUk>
* <http://www.youtube.com/embed/dVFQxZe9Bbk>
* <http://www.youtube.com/embed/TpZXX-GsmB0>
* <http://www.ck12.org/na/Solving-Ratio-and-Percent-Problems-Using-Proportional-Relationships---7.RP.3-1/lesson/user%3Ac2ZveDJAb3N3ZWdvLm9yZw../Solving-Ratio-and-Percent-Problems-Using-Proportional-Relationships---7.RP.3/>
* <http://www.mathsisfun.com/money/interest.html>
 | * <http://www.ck12.org/assessment/ui/build-20140321162226/views/test.view.new.html?524c9226da2cfe270b07bb1f?type=practice&referrer=practice_details&ep=http://www.ck12.org/arithmetic/Proportions-to-Find-Percent-P/asmtpractice/Proportions-to-Find-Percent-P-Practice/r1/>
* <http://www.ixl.com/math/grade-7/percents-of-numbers-and-money-amounts>
* <http://www.ixl.com/math/grade-7/percents-of-numbers-and-money-amounts>
* <http://www.ixl.com/math/grade-7/solve-percent-equations>
* <http://www.mathplayground.com/visualpercent.html>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-constructing-proportions/e/constructing-proportions-to-solve-application-problems>
* <http://www.ixl.com/math/grade-6/compare-percents-and-fractions-word-problems>
* <http://www.mathplayground.com/percent_shopping.html>
* <http://www.mathopolis.com/questions/q.php?id=1702&site=1&ref=/money/interest.html&qs=1702_1703_1704_1705_3749_3750_3751_1706_1707_1708>
* <http://www.ixl.com/math/grade-8/simple-interest>
* <http://www.ixl.com/math/grade-8/find-the-percent-tax-discount-and-more>
* <http://www.ixl.com/math/grade-8/percent-of-a-number-tax-discount-and-more>
* <http://www.ixl.com/math/grade-7/percent-of-a-number-tax-discount-and-more>
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