

Unit 2: Introducing Proportional Relationships[Open Up Family Resource Link](#)

Lesson	Skill	Online Resources	Standard
1	Use equivalent ratios to describe scaled copies of shapes. Know that two recipes will taste the same if the ingredients are in equivalent ratios.	https://www.youtube.com/watch?v=X_tH_9JKodY https://www.youtube.com/watch?v=eiC3Vt_LQ1U http://virtualnerd.com/middle-math/ratios-proportions-percent/scale-drawings-models/scale-drawing-definition https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-ratios-intro/v/ratios-for-recipes https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-ratios-intro/e/equivalent-ratios	7.RP.A.2.a, 7.RP.A.2.b, 7.RP.A.2
2	Understand the terms proportional relationship and constant of proportionality. Use a table to reason about two quantities that are in a proportional relationship.	https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-proportional-rel/v/introduction-to-proportional-relationships https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-proportional-rel/v/analyzing-and-identifying-proportional-relationships-ex3 https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-proportional-rel/e/analyzing-and-identifying-proportional-relationships-2	7.RP.A.2.a, 7.RP.A.2.b, 7.RP.A.2
3	Find missing information in a proportional relationship using a table. Find the constant of proportionality from information given in a table.	https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/v/proportionality-constant-from-table https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/e/constant-of-proportionality-from-tables https://ca.ixl.com/math/grade-7/find-the-constant-of-proportionality-from-a-table https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-proportional-rel/e/analyzing-and-identifying-proportional-relationships	7.RP.A.2.c, 7.RP.A.2
4	Write the constant of proportionality as an entry in a table. Write an equation of the form $y=kx$ to represent a proportional relationship	https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/v/constant-of-proportionality-from-equation https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-	7.RP.A, 7.RP.A.2.b, 7.RP.A.2.c, 7.RP.A.2

	described by a table or a story.	proportion/constant-of-proportionality/e/constant-of-proportionality-from-equations https://ca.ixl.com/math/grade-7/write-equations-for-proportional-relationships-from-tables https://ca.ixl.com/math/grade-7/write-and-solve-equations-for-proportional-relationships	
5	<p>Find the constant of proportionality for a proportional relationship.</p> <p>Write an equation representing a proportional relationship described by a table or story.</p>	https://www.youtube.com/watch?v=0Y0blHsu-wM https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-equations-of-proportional-relationships/v/constructing-an-equation-for-a-proportional-relationship https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-equations-of-proportional-relationships/e/writing-proportional-equations	7.RP.A.2.c, 7.RP.A.2
6	<p>Relate all parts of an equation like $y=kx$ to the proportional situation it represents.</p> <p>Find missing information in a proportional relationship using the constant of proportionality.</p>	https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/v/comparing-proportionality-constants https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/e/compare-constants-of-proportionality https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/v/interpret-proportionality-constants https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/e/interpret-constants-of-proportionality	7.RP.A.2
7	Decide if a relationship represented by a table could be proportional and when it is definitely not proportional.	https://www.youtube.com/watch?v=jXKOdYFfws https://www.youtube.com/watch?v=HwJPKXOboBk http://virtualnerd.com/pre-algebra/ratios-proportions/proportionality/determine-proportionality/table-values-determine-proportionality	7.G.B.6, 7.RP.A.1, 7.RP.A.2
8	Decide if a relationship represented by an equation is proportional or not.	https://www.youtube.com/watch?v=qcz1Cm_-l50 https://www.montereyinstitute.org/courses/Algebra1/COURSE_TEXT_RESOURCE/U03_L2_T3_text_final.html https://learnzillion.com/lesson_plans/8691-write-an-equation-that-represents-a	7.RP.A, 7.RP.A.2

		proportional-relationship-between-total-cost-and-number-of-items/	
9	<p>Determine whether two quantities are in a proportional relationship.</p> <p>Solve all kinds of problem involving proportional relationships.</p>	<p>https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-write-and-solve-proportions/v/using-proportion-to-solve-for-variable</p> <p>https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-write-and-solve-proportions/v/find-an-unknown-in-a-proportion-2</p> <p>https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-write-and-solve-proportions/e/constructing-proportions-to-solve-application-problems</p> <p>https://www.ixl.com/math/grade-7/solve-proportions-word-problems</p>	7.RP.A.2.a, 7.RP.A.2
10	<p>Know that the graph of a proportional relationship lies on a line through (0,0).</p>	<p>https://learnzillion.com/lesson_plans/5757-identify-the-constant-of-proportionality-in-graphs/</p> <p>https://www.ixl.com/math/grade-7/identify-proportional-relationships</p>	7.RP.A, 7.RP.A.2.d, 7.RP.A.2
11	<p>Understand the information given by graphs of proportional relationships that are made of up of points or a line.</p> <p>Find the constant of proportionality from a graph.</p> <p>Draw the graph of a proportional relationship given a single point on the graph (other than the origin).</p>	<p>https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/v/identifying-constant-of-proportionality-graphically</p> <p>https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/constant-of-proportionality/e/constant-of-proportionality-from-graphs</p> <p>https://ca.ixl.com/math/grade-7/identify-proportional-relationships-by-graphing</p> <p>https://ca.ixl.com/math/grade-7/find-the-constant-of-proportionality-from-a-graph</p>	7.RP.A.2
12	<p>Know that the steeper graph of two proportional relationships has a larger constant of proportionality.</p> <p>Compare two, related proportional relationships based on their graphs.</p>	<p>https://learnzillion.com/resources/72497-graph-interpret-and-compare-proportional-relationships-8-ee-b-5/</p> <p>https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-ratio-proportion/cc-7th-graphs-proportions/v/identifying-proportional-relationships-visually</p>	7.RP.A.2
13	<p>Interpret a graph of a proportional relationship using the situation.</p> <p>Write an equation representing a proportional relationship from a graph.</p>	<p>https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-graphing-prop-rel/v/comparing-proportional-relationships-exercise-2</p> <p>https://ca.ixl.com/math/grade-7/interpret-graphs-of-proportional-relationships</p> <p>https://ca.ixl.com/math/grade-7/write-equations-for-proportional-relationships-from-graphs</p>	7.RP.A, 7.RP.A.2

14	<p>Use units to help me understand information about proportional relationships.</p> <p>Make connections between the graphs, tables, and equations of a proportional relationship.</p>	<p>https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-graphing-prop-rel/v/comparing-proportional-relationships-exercise</p> <p>https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-graphing-prop-rel/e/comparing-proportional-relationships</p> <p>https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-graphing-prop-rel/e/graphing-proportional-relationships</p> <p>https://www.youtube.com/watch?v=HB0vcQqCadg</p>	7.RP.A.2