**7th Grade iXL Skills ~ Summer 2017**

**Week 1 - Exponents and square roots**

* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000475&timePeriod=5)[**I.4**Exponents with negative bases](https://www.ixl.com/math/grade-7/exponents-with-negative-bases)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000476&timePeriod=5)[**I.5**Exponents with decimal and fractional bases](https://www.ixl.com/math/grade-7/exponents-with-decimal-and-fractional-bases)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000479&timePeriod=5)[**I.8**Evaluate numerical expressions involving exponents](https://www.ixl.com/math/grade-7/evaluate-numerical-expressions-involving-exponents)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000480&timePeriod=5)[**I.9**Square roots of perfect squares](https://www.ixl.com/math/grade-7/square-roots-of-perfect-squares)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000481&timePeriod=5)[**I.10**Estimate square roots](https://www.ixl.com/math/grade-7/estimate-square-roots)

**Week 2 - Ratios and proportions**

* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000566&timePeriod=5)[**J.6**Do the ratios form a proportion?](https://www.ixl.com/math/grade-7/do-the-ratios-form-a-proportion)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000567&timePeriod=5)[**J.7**Do the ratios form a proportion: word problems](https://www.ixl.com/math/grade-7/do-the-ratios-form-a-proportion-word-problems)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000568&timePeriod=5)[**J.8**Solve proportions](https://www.ixl.com/math/grade-7/solve-proportions)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000569&timePeriod=5)[**J.9**Solve proportions: word problems](https://www.ixl.com/math/grade-7/solve-proportions-word-problems)
* **J.11** Solve proportions: word problems

**Week 3 - Proportional relationships**

* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2020006552&timePeriod=5)[**K.1**Find the constant of proportionality from a table](https://www.ixl.com/math/grade-7/find-the-constant-of-proportionality-from-a-table)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2020006569&timePeriod=5)[**K.2**Identify graphs of proportional relationships](https://www.ixl.com/math/grade-7/identify-graphs-of-proportional-relationships)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000625&timePeriod=5)[**K.3**Find the constant of proportionality from a graph](https://www.ixl.com/math/grade-7/find-the-constant-of-proportionality-from-a-graph)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2020006503&timePeriod=5)[**K.4**Write equations for proportional relationships](https://www.ixl.com/math/grade-7/write-equations-for-proportional-relationships)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2020006504&timePeriod=5)[**K.5**Graph proportional relationships](https://www.ixl.com/math/grade-7/graph-proportional-relationships)

**Week 4 - Consumer Math**

* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000506&timePeriod=5)[**M.4**Unit prices with unit conversions](https://www.ixl.com/math/grade-7/unit-prices-with-unit-conversions)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000507&timePeriod=5)[**M.5**Unit prices: find the total price](https://www.ixl.com/math/grade-7/unit-prices-find-the-total-price)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000509&timePeriod=5)[**M.7**Find the percent: tax, discount, and more](https://www.ixl.com/math/grade-7/find-the-percent-tax-discount-and-more)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000511&timePeriod=5)[**M.9**Multi-step problems with percents](https://www.ixl.com/math/grade-7/multi-step-problems-with-percents)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000513&timePeriod=5)[**M.11**Simple interest](https://www.ixl.com/math/grade-7/simple-interest)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000900&timePeriod=5)[**M.12**Compound interest](https://www.ixl.com/math/grade-7/compound-interest)

**Week 5 – Units of Measurement**

* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2020002034&timePeriod=5)
* [**O.1**Estimate customary measurements](https://www.ixl.com/math/grade-7/estimate-customary-measurements)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000515&timePeriod=5)[**O.2**Estimate metric measurements](https://www.ixl.com/math/grade-7/estimate-metric-measurements)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000516&timePeriod=5)[**O.3**Compare and convert customary units](https://www.ixl.com/math/grade-7/compare-and-convert-customary-units)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000518&timePeriod=5)[**O.5**Compare and convert metric units](https://www.ixl.com/math/grade-7/compare-and-convert-metric-units)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000519&timePeriod=5)[**O.6**Convert between customary and metric systems](https://www.ixl.com/math/grade-7/convert-between-customary-and-metric-systems)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000521&timePeriod=5)[**O.8**Celsius and Fahrenheit temperatures](https://www.ixl.com/math/grade-7/celsius-and-fahrenheit-temperatures)

**Week 6 - Two-variable equations**

* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000626&timePeriod=5)[**U.1**Does (x, y) satisfy the equation?](https://www.ixl.com/math/grade-7/does-x-y-satisfy-the-equation)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2020002039&timePeriod=5)[**U.2**Identify independent and dependent variables](https://www.ixl.com/math/grade-7/identify-independent-and-dependent-variables)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000638&timePeriod=5)[**U.3**Find a value using two-variable equations](https://www.ixl.com/math/grade-7/find-a-value-using-two-variable-equations)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000637&timePeriod=5)[**U.4**Solve word problems involving two-variable equations](https://www.ixl.com/math/grade-7/solve-word-problems-involving-two-variable-equations)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000627&timePeriod=5)[**U.5**Complete a table for a two-variable relationship](https://www.ixl.com/math/grade-7/complete-a-table-for-a-two-variable-relationship)

**Week 7 and 8 – Transformations and Congruence**

* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000628&timePeriod=5)
* [**X.1**Symmetry](https://www.ixl.com/math/grade-7/symmetry)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000553&timePeriod=5)[**X.2**Identify reflections, rotations, and translations](https://www.ixl.com/math/grade-7/identify-reflections-rotations-and-translations)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000554&timePeriod=5)[**X.3**Translations: graph the image](https://www.ixl.com/math/grade-7/translations-graph-the-image)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000555&timePeriod=5)[**X.4**Translations: find the coordinates](https://www.ixl.com/math/grade-7/translations-find-the-coordinates)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000556&timePeriod=5)[**X.5**Reflections: graph the image](https://www.ixl.com/math/grade-7/reflections-graph-the-image)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000557&timePeriod=5)[**X.6**Reflections: find the coordinates](https://www.ixl.com/math/grade-7/reflections-find-the-coordinates)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000558&timePeriod=5)[**X.7**Rotations: graph the image](https://www.ixl.com/math/grade-7/rotations-graph-the-image)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000559&timePeriod=5)[**X.8**Rotations: find the coordinates](https://www.ixl.com/math/grade-7/rotations-find-the-coordinates)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000533&timePeriod=5)[**X.9**Similar and congruent figures](https://www.ixl.com/math/grade-7/similar-and-congruent-figures)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000537&timePeriod=5)[**X.10**Congruence statements and corresponding parts](https://www.ixl.com/math/grade-7/congruence-statements-and-corresponding-parts)

**Week 9 and 10 – Data and Graphs**

* [**BB.1**Interpret tables](https://www.ixl.com/math/grade-7/interpret-tables)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000491&timePeriod=5)[**BB.2**Interpret line plots](https://www.ixl.com/math/grade-7/interpret-line-plots)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000492&timePeriod=5)[**BB.3**Create line plots](https://www.ixl.com/math/grade-7/create-line-plots)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2009005220&timePeriod=5)[**BB.4**Create and interpret line plots with fractions](https://www.ixl.com/math/grade-7/create-and-interpret-line-plots-with-fractions)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000493&timePeriod=5)[**BB.5**Interpret stem-and-leaf plots](https://www.ixl.com/math/grade-7/interpret-stem-and-leaf-plots)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000494&timePeriod=5)[**BB.6**Interpret bar graphs](https://www.ixl.com/math/grade-7/interpret-bar-graphs)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000495&timePeriod=5)[**BB.7**Create bar graphs](https://www.ixl.com/math/grade-7/create-bar-graphs)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000496&timePeriod=5)[**BB.8**Interpret histograms](https://www.ixl.com/math/grade-7/interpret-histograms)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000497&timePeriod=5)[**BB.9**Create histograms](https://www.ixl.com/math/grade-7/create-histograms)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000490&timePeriod=5)[**BB.10**Create frequency charts](https://www.ixl.com/math/grade-7/create-frequency-charts)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000498&timePeriod=5)[**BB.11**Interpret circle graphs](https://www.ixl.com/math/grade-7/interpret-circle-graphs)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000499&timePeriod=5)[**BB.12**Circle graphs and central angles](https://www.ixl.com/math/grade-7/circle-graphs-and-central-angles)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000500&timePeriod=5)[**BB.13**Interpret line graphs](https://www.ixl.com/math/grade-7/interpret-line-graphs)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000501&timePeriod=5)[**BB.14**Create line graphs](https://www.ixl.com/math/grade-7/create-line-graphs)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000502&timePeriod=5)[**BB.15**Interpret box-and-whisker plots](https://www.ixl.com/math/grade-7/interpret-box-and-whisker-plots)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000654&timePeriod=5)[**BB.16**Scatter plots](https://www.ixl.com/math/grade-7/scatter-plots)
* [report](https://www.ixl.com/analytics/skill-diagnostics#skill=2001000846&timePeriod=5)[**BB.17**Choose the best type of graph](https://www.ixl.com/math/grade-7/choose-the-best-type-of-graph)