

Summer Math Practice on IXL

For Incoming 7th Graders

A collage of mathematical symbols and formulas including $2 > -3$, $0.999... = 1$, $\pi \approx 3.14$, ∞ , $+$, $-$, \times , \div , $\sqrt{2}$, $1 + 2 \cdot 3$, 5^2 , $(1 - 2) + 3$, and $101_2 = 5_{10}$.

Research shows that in order for skills to be permanently mastered, they must be continuously practiced. “If you don’t use it, you lose it!” To help prevent the summertime “skill slump”, all incoming seventh-grade students are being asked to continue using their IXL Math accounts. This site allows students to have step-by-step practice of math skills with feedback and instructional guidelines. You should plan to work on this weekly, so you are getting continuous review throughout the summer.

Our current rising seventh-grade students have already been given and have been using their IXL accounts. However, if you are a new student who needs new username and password information, please contact Mrs. McKenna at smckenna@iccatholicsschool.org so she can set you up.

Each skill is labeled and listed below. Follow the directions to practice each skill throughout the summer. Remember to log in to your account first in order for your progress to be saved. These suggested skills include a review of sixth-grade material, as well as some introduction into skills seen in seventh grade.

Steps:

- 1) Log in to your IXL account.
- 2) On the right hand side of the page, click “Suggestions from your teacher”. All of the skills listed below have been assigned to you.
- 3) Continue working on the skill until you have reached between an 80-100 for a score. It is best to work in short sessions of 15-20 minutes, especially if you are having difficulty reaching a SmartScore of 80 on a particular skill.
- 4) Print out the chart and fill in the date and smart score once you have completed a skill. Bring it to the first day of school.

Name: _____

Suggested Skills for Entering 7th Grade

| Skill number as of June 2021** | Skill Name <small>(**Please use this as a reference because the numbering may change over the summer)</small> | Smart Score | Date Completed |
|---------------------------------|--|-------------|----------------|
| D. Exponents | | | |
| D.1 | Write multiplication expressions & exponents | | |
| D.2 | Evaluate exponents | | |
| E. Number Theory | | | |
| E.8 | Greatest common factor | | |
| E.10 | Least common multiple | | |
| G. Add and Subtract Decimals | | | |
| G.1 | Add & subtract decimal numbers | | |
| H. Multiply and Divide Decimals | | | |
| H.2 | Multiply decimals | | |
| H.7 | Division with decimal quotients | | |
| I. Fractions and Mixed Numbers | | | |
| I.4 | Write fractions in lowest terms | | |
| I.8 | Convert between improper fractions & mixed numbers | | |
| K. Multiply Fractions | | | |
| K.6 | Multiply two fractions | | |
| K.13 | Multiply mixed numbers | | |
| L. Divide Fractions | | | |
| L.3 | Divide whole numbers and unit fractions | | |
| L.5 | Divide fractions | | |
| L.7 | Divide fractions and mixed numbers | | |
| M. Integers | | | |

| | | | |
|--------------------------------------|---|--|--|
| M.1 | Understanding integers | | |
| M.6 | Absolute value | | |
| M.7 | Compare integers | | |
| M.8 | Put integers in order | | |
| O. Mixed Operations | | | |
| O.3 | Evaluate numerical expressions involving whole numbers | | |
| P. Rational Numbers | | | |
| P.5 | Put rational numbers in order | | |
| R. Ratios and Rates | | | |
| R.2 | Write a ratio using a fraction | | |
| R.5 | Identify equivalent ratios | | |
| R.7 | Ratio tables | | |
| R.9 | Unit rates | | |
| S. Percents | | | |
| S.1 | What percentage is illustrated? | | |
| S.4 | Convert between percents, fractions, and decimals | | |
| S.13 | Find what percent one number is of another | | |
| X. Coordinate Plane | | | |
| X.2 | Graph points on a coordinate grid | | |
| Y. Expressions and Properties | | | |
| Y.6 | Evaluate variable expressions with decimals, fractions, and mixed numbers | | |
| Y.8 | Identify terms and coefficients | | |
| Y.13 | Multiply using the distributive property | | |
| Y.14 | Factor using the distributive property | | |
| Y.17 | Add and subtract like terms | | |

| Z. One-Variable Equations | | | |
|-------------------------------|---|--|--|
| Z.2 | Which x satisfies an equation? | | |
| Z.7 | Solve one-step addition and subtraction equations with whole numbers | | |
| Z.8 | Solve one-step multiplication and division equations with whole numbers | | |
| AA. One-Variable Inequalities | | | |
| AA.1 | Solutions to inequalities | | |
| AA.2 | Graph inequalities on number lines | | |
| BB. Two-Variable Equations | | | |
| BB.8 | Complete a table for a two-variable relationship | | |
| CC. Two-Dimensional Figures | | | |
| CC.8 | Graph triangles and quadrilaterals | | |
| FF. Geometric Measurement | | | |
| FF.3 | Understanding area of a parallelogram | | |
| FF.6 | Area of triangles | | |
| FF.8 | Area of trapezoids | | |
| FF.9 | Area of rhombuses | | |

Multiplication and Division Facts

Students should be completely fluent in ALL of their multiplication and division facts (1-12). Here is an online link you may use to keep up with your facts:

https://phet.colorado.edu/sims/html/arithmetric/latest/arithmetric_en.html