

Name\_\_\_\_\_HR\_\_\_\_\_Password\_\_\_\_\_

## Incoming Algebra Math Work (Summer 2026)

**YOU MUST BE LOGGED IN WITH GOOGLE ON IXL WHEN YOU COMPLETE THIS.**

**The following prerequisite skills need to be mastered: solving one step equations, integer operations, rational number operations, and graphing on a coordinate plane**

These activities review key ideas that will be needed in Algebra. You will use the **Seventh-Grade** activities on IXL. Our school's URL is: <https://www.ixl.com/signin/incarnation> (or download the app and add @incarnation after your username).

The **GOAL** for each section is to achieve a **SMART SCORE of 80**. If you have exceeded 15 minutes and have not achieved this goal, please take the next 15-20 minutes to review the video and/or "Work it out" lessons at the bottom of the page. You may stop once you have completed 30 questions.

Note: If these skills are challenging, you should be using the resources available in IXL to help you. Mastering these skills will ensure you are prepared for the coming school year. If you struggle with these skills, you might consider getting a summer math tutor.

**Summer IXL is to be turned in on the first day back to school for a completion grade. You must do the work between June 8, 2026 and September 11, 2026 to receive credit. Your math teacher will accept your summer work until 9/11/26.**

| Skill Group                      | Section code | Possible Activities                                                     | SmartScore | Questions Completed |
|----------------------------------|--------------|-------------------------------------------------------------------------|------------|---------------------|
| Operations with Integers         | 7YN          | <a href="#">Evaluate numerical expressions involving integers</a>       |            |                     |
| Rational Numbers                 | 8XE          | <a href="#">Convert between decimals and fractions or mixed numbers</a> |            |                     |
|                                  | 28Y          | <a href="#">Put rational numbers in order</a>                           |            |                     |
| Operations with Rational Numbers | QBF          | <a href="#">Add, subtract, multiply, and divide rational numbers</a>    |            |                     |
| Square roots and cube roots      | WRT          | <a href="#">Square roots of perfect squares</a>                         |            |                     |
| Proportions, Ratios              | LKZ          | <a href="#">Find the constant of proportionality from a table</a>       |            |                     |
|                                  | DWZ          | <a href="#">Proportional Relationships</a>                              |            |                     |
| Percents                         | 2HW          | <a href="#">Convert between percents, fractions, and decimals</a>       |            |                     |
| Coordinate Plane                 | VXU          | <a href="#">Coordinate plane review</a>                                 |            |                     |
|                                  | RUZ          | <a href="#">Find the distance between two points</a>                    |            |                     |
| Expressions & Properties         | T56          | <a href="#">Evaluate multi-variable expressions</a>                     |            |                     |
|                                  | EQA          | <a href="#">Add and subtract like terms: with exponents</a>             |            |                     |
| One-Variable Equations           | V96          | <a href="#">Checkpoint: Solve two-step equations</a>                    |            |                     |
| One-Variable                     | QWH          | <a href="#">Solve one step inequalities</a>                             |            |                     |

|              |     |                                             |  |  |
|--------------|-----|---------------------------------------------|--|--|
| Inequalities |     |                                             |  |  |
|              | TFK | <a href="#">Graph one-step inequalities</a> |  |  |

|                         |     |                                                                                              |  |  |
|-------------------------|-----|----------------------------------------------------------------------------------------------|--|--|
| Two-dimensional figures | 4U6 | <a href="#">Finding missing angles in triangles</a>                                          |  |  |
|                         | CST | <a href="#">Find measures of complementary, supplementary, vertical, and adjacent angles</a> |  |  |
| Geometric Measurement   | RFP | <a href="#">Surface area of cubes and prisms</a>                                             |  |  |
|                         | XSJ | <a href="#">Surface area of pyramids</a>                                                     |  |  |
|                         | URT | <a href="#">Volume of Cubes and Prisms</a>                                                   |  |  |

### Challenge/Bonus: Locate these skills in the 8th grade section

|                        |     |                                                                         |  |  |
|------------------------|-----|-------------------------------------------------------------------------|--|--|
| One-Variable Equations | 55K | <a href="#">Solve multi-step equations</a>                              |  |  |
|                        | 2AZ | <a href="#">Solve multi-step equations with fractional coefficients</a> |  |  |
| Linear Equations       | D7M | <a href="#">Find the slope from a graph</a>                             |  |  |
|                        | ZAC | <a href="#">Find the slope from two points</a>                          |  |  |
|                        | W5E | <a href="#">Graph a line from slope-intercept form</a>                  |  |  |
| Data Analysis          | YHZ | <a href="#">Populations and samples</a> (7th grade skill)               |  |  |
| Probability            | 5ZY | <a href="#">Probability of a simple event</a>                           |  |  |

You and your teacher will be able to see a summary of your work on the [www.ixl.com](http://www.ixl.com) site.

**Optional:** More than 30 problems in each section for extra practice if students and/or parents feel they need extra practice due to low scores or like the math section.

**Required:** Students are required to receive a SmartScore of 80 or attempt 30 problems in each section, stopping at whichever comes first. **Summer IXL is to be turned in on the first day back to school for a completion grade. You must do the work between June 8, 2026 and September 11, 2026 to receive credit. Your math teacher will accept your summer work until 9/11/26.**

Parent Signature: \_\_\_\_\_