

8th Grade Math Summer Activities

Students will complete a series of IXL activities over the summer in order to reinforce prerequisite skills for the upcoming year. For each skill, students will work toward a Smart Score of 80 on the activity. If the student works for a half hour on a skill and does not achieve a Smart Score of 80, they *may choose* to move on. Please note this on the chart. There is a “Smart Score” and “Time Elapsed” log for each skill in IXL. Log the Smart Score if students were able to achieve a score of 80 or more. Log the Time Elapsed if the student worked for over one half hour and was unable to achieve a Smart Score of 80. The chart will be collected upon student’s return to school for the 2025-2026 school year. Students do not need to work through the chart in order. There will be a quiz on these topics during the first week of school. I highly encourage watching the IXL videos that accompany each of the skills.

To access skills, please look under the Level I (blue) math section. For example, the skill called “Add Integers Using Counters” is listed as B1.

The screenshot shows the IXL website interface. At the top, there's a navigation bar with 'My IXL', 'Learning', 'Assessment', and 'Analytics'. Below this, a secondary bar lists subjects: Math, English language arts, Science, Social studies, Spanish, Spanish language arts, Recommendations, Skill plans, and Awards. The main content area is titled 'Level I math' and lists various math topics. A red box highlights 'B. Operations with integers' and a red arrow points to '1 Add integers using counters'. Below this, a detailed view of the skill 'B.1 Add integers using counters' is shown, including instructions, visual aids (counters), and a progress sidebar on the right.

Level I math

IXL offers hundreds of Level I math skills to explore and learn! Not sure where to start? Go to your personalized [Recommendations wall](#) to find skills picked just for you, or select a skill plan that aligns to your textbook, state standards, or standardized test.

A. Integers

- 1 Understanding integers
- 2 Integers on number lines
- 3 Graph integers on horizontal and vertical number lines
- 4 Understanding absolute value
- 5 Absolute value and opposite integers
- 6 Quantities that combine to zero: word problems
- 7 Compare and order integers
- 8 Integer inequalities with absolute values

B. Operations with integers

- 1 Add integers using counters
- 2 Add integers using number lines
- 3 Integer addition rules
- 4 Add integers
- 5 Add three or more integers
- 6 Subtract integers using counters
- 7 Subtract integers using number lines

L. Ratios, rates, and proportions

- 1 Understanding ratios
- 2 Identify equivalent ratios
- 3 Write an equivalent ratio
- 4 Equivalent ratios: word problems
- 5 Unit rates
- 6 Calculate unit rates with fractions
- 7 Compare ratios: word problems
- 8 Compare rates: word problems
- 9 Do the ratios form a proportion?
- 10 Do the ratios form a proportion: word problems
- 11 Solve proportions
- 12 Solve proportions: word problems
- 13 Estimate population size using proportions

X. Two-variable equations

- 1 Identify independent and dependent variables
- 2 Find a value using two-variable equations
- 3 Evaluate two-variable equations: word problems
- 4 Complete a table for a two-variable relationship
- 5 Write a two-variable equation
- 6 Identify the graph of an equation
- 7 Graph a two-variable equation
- 8 Interpret a graph: word problems
- 9 Write an equation from a graph using a table
- 10 Write a linear equation from a graph

Y. Lines and angles

- 1 Name, measure, and classify angles
- 2 Lines, line segments, and rays
- 3 Parallel, perpendicular, and intersecting lines
- 4 Identify complementary, supplementary, vertical, and adjacent angles
- 5 Find measures of complementary

M. Coordinate plane

- 1 Coordinate plane review
- 2 Quadrants and axes

B.1 Add integers using counters

Use counters to add $-2 + 1$.

You start with:

You add:

Which picture shows the sum?

Learn with an example or Watch a video

Questions answered: 0

Time elapsed: 00:00:04

SmartScore: 0

Goal: 80

Skill	Skill Name	Date Completed	Smart Score/Elapsed Time	Parent Initial
B.1	Add Integers Using Counters			
B.2	Add Integers Using Number Lines			
B.3	Integer Addition Rules			
B.4	Add Integers			
B.5	Add 3 or More Integers			
B.6	Subtract Integers Using Counters			
B.7	Subtract Integers Using Number Lines			
B.8	Integer Subtraction Rules			
B.9	Subtract Integers			
B.10	Integer Addition & Subtraction Rules			

Skill	Skill Name	Date Completed	Smart Score/Elapsed Time	Parent Initial
B.11	Add & Subtract Integers Using Counters			
B.12	Add & Subtract Integers			
B.13	Complete Addition & Subtraction Equations			
B.14	Add & Subtract Integers: Word Problems			
B.15	Understand Multiplying by a Negative #			
B.16	Integer Multiplication Rules			
B.17	Multiply Integers			
B.18	Integer Division Rules			
B.19	Equal Quotients			
B.20	Divide Integers			

Skill	Skill Name	Date Completed	Smart Score/Elapsed Time	Parent Initial
B.21	Integer Multiplication & Division Rules			
B.22	Multiply & Divide Integers			
B.23	Complete Multiplication & Division Equations			
B.24	Add, Subtract, Multiply & Divide Integers			
B.25	Evaluate Numerical Expressions			
C.1	Decimal Numbers Review			
C.2	Compare & Order Decimals			
C.3	Round Decimals			
I.3	Add & Subtract Rational Numbers			
T.7	Solve 2-Step Equations without Parentheses			