Interpret the unknown in division using the array model.

Warm-Up

FLUENCY PRACTICE

Group Counting

NOTE: Group counting reviews interpreting multiplication as repeated addition. Counting by twos and threes in this activity supports work with those factors in today's lesson.

T: Let's count by twos. (Direct students to count forward and backward to 20, emphasizing the 8 to 10, 10 to 12, and 18 to 20 transitions.)

T: Let's count by threes. (Direct students to count forward and backward to 30, periodically changing directions. Emphasize the 9 to 12, 18 to 21, and 27 to 30 transitions.)

Divide Equal Groups

Materials:

NOTE: Students directly relate repeated addition to division. They interpret the unknown in division. This activity bridges Lesson 5 and today's Lesson.

T: (Project an array with 3 groups of 5.) Say the total as a repeated addition sentence.

S: $5 + 5 + 5 = 15$.

T: Write a division sentence for 15 divided into 3 equal groups.

S: $(Write\ 15 \div 3 = 5.)$

Continue with the following possible sequence: 5 groups of 3, 4 groups of 3, 3 groups of 4, 9 groups of 2, and 2 groups of 9.

Alternate between division sentences where the quotient represents either the number of objects in a group or the number of groups.

WORD PROBLEM

Twenty children play a game. There are 5 children on each team. How many teams play the game? Write a division sentence to represent the problem.
Research-backed curriculum to help students make sense of math.

A comprehensive suite of digital and print materials supports teachers in planning daily instruction that meets the evolving needs of every student.

With Zearn, students unlock meaning through concrete and pictorial representations and explore multiple ways to engage with math. Zearn’s instructional materials support teachers to leverage the coherence of math to help students catch up and move forward in grade-level learning.

Teacher Edition

Course Guide

Each grade-level course guide provides teachers with the educative supports they need to accurately address grade-level expectations of the standards—always with an appropriate balance of conceptual understanding, procedural fluency, and application.

As teachers plan for instruction, the course guide not only describes how the Zearn Math curriculum and materials support diverse learners by design, but also offers guidance on specific strategies teachers can use in their daily planning to ensure access and active engagement for all learners.
Mission Books
Mission Overviews
Introductions to each Mission orient teachers to the big mathematical ideas of each unit and note connections to content from prior grades.

Daily lesson materials
Instructional materials support teachers to facilitate thoughtful mathematical discussions as they guide students through a series of scaffolded math problems.

Students make sense of math concepts with rich visualizations and manipulatives as they progress from the concrete, through the representational, to the abstract. They explore multiple ways to solve problems, share their thinking, discuss their classmates’ strategies, and receive in-the-moment feedback from their teacher.

Materials for each lesson offer debrief questions, note common student misconceptions, and provide guidance on supporting multiple means of engagement, representation, and expression.

Comprehensive assessments
Include daily, unit-level, and grade-level assessments, available across a thoughtful balance of software- and paper-based experiences.
Independent digital lessons

Teachers can preview daily digital lessons for every math concept with on-screen teachers, interactive visual models, and built-in Tier 1 intervention.

Teacher lesson materials

All Zearn Math instructional materials are available online for download.

Training and PD

Live trainings and on-demand PD cover everything from the basics of getting started with Zearn Math to reviewing teaching strategies to help teachers decide how to best support their students.

Foundational Lesson Guidance

Tailored intervention lesson recommendations from our full K–8 math library, coherently connected to students’ grade-level math learning.
Progress Monitoring

Class reports

**Pace and Progress Reports**
Research shows consistent Zearn usage leads to 2x learning gains across all levels of student proficiency. Reports on student progress help educators track and celebrate when students are completing 3+ digital lessons each week.

**Tower Alerts Report and Sprint Alerts Report**
Real-time alerts let teachers know when—and where—students need more support.

Student reports

Teachers have insight into each student’s precise learning needs and receive tailored recommendations for foundational math lessons they can assign for additional support.

Admin reports

Transparent progress monitoring at every level of your system provides insight into where math learning is happening so you can celebrate bright spots and support improvements.
More opportunity to deeply explore math.

Zearn Math gives students more ways to explore concepts, discover meaning, and make sense of math.

Zearn’s digital lessons deepen the learning students do with their teacher, helping all students more fruitfully engage in rich classroom discussion and ensuring students get the personalized support they need, right alongside grade-level learning.

Student Materials: Independent Digital Lessons

Adaptive digital lessons give students more than a place to practice. Students learn grade-level math concepts with on-screen teachers, interactive visual models, and built-in differentiated support. Each lesson develops a balance of conceptual understanding, procedural fluency, and application work through a consistent structure of:

**Fluency Activities**
Individually adaptive and lesson-aligned activities help students develop the foundations for new learning.

**Guided Practice**
Students explore new math concepts with built-in learning acceleration supports, including scaffolded access points that help students engage with new grade-level ideas.

**Independent Practice**
A daily formative assessment checks for understanding and launches adaptive supports that bring connected foundational concepts right into the context of grade-level learning.
**Student Workbooks**

Includes all materials for students to use alongside instruction: lesson work to accompany every Independent Digital Lesson, Exit Tickets, Problem Sets, and Goal Trackers. Downloadable materials are also available in Spanish.

Students have multiple opportunities to engage in problem solving and demonstrate understanding.

**Manipulative Kits**

Students model with concrete manipulatives throughout their daily learning with Zearn. Manipulative kits are available for purchase through Hand2Mind.
Everything we do is driven by the belief that every kid is a math kid.

Zearn is the 501(c)(3) nonprofit educational organization behind Zearn Math, the top-rated math learning platform used by 1 in 4 elementary-school students and by more than 1 million middle-school students nationwide. Zearn Math supports teachers with research-backed curriculum and digital lessons proven to double student academic growth across all levels of student proficiency.

Learn more at about.zearn.org