

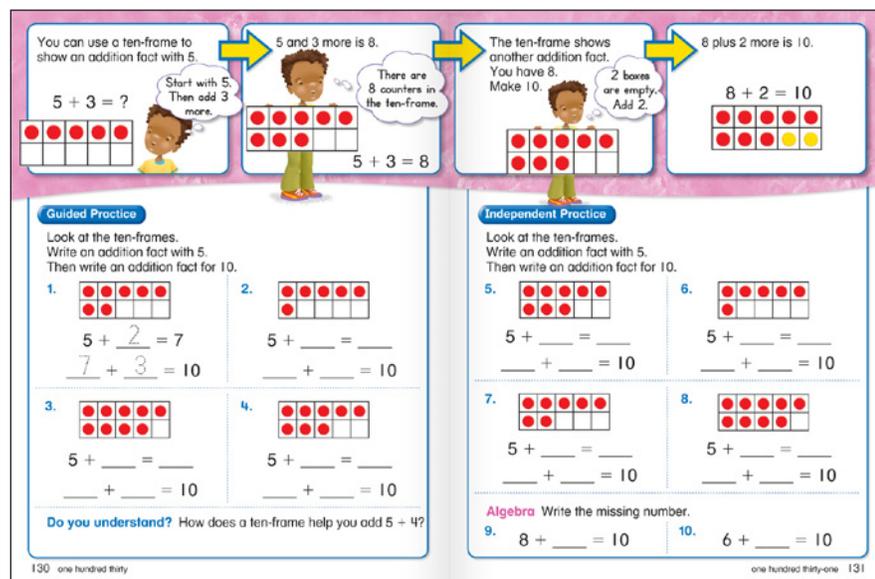
Introducing Topics

Introduction

This guide introduces enVisionMATH[®] © 2012 Common Core topics—the first part of the program’s instructional design. It discusses how to assess students’ topic readiness using print and online resources, and it looks at the Topic Opener activities.

Before We Begin

This guide shows both primary and intermediate grade-level examples, but teachers can apply what they learn here to their grade levels.



You can use a ten-frame to show an addition fact with 5.

5 + 3 = ?

Start with 5. Then add 3 more.

5 and 3 more is 8.

There are 8 counters in the ten-frame.

5 + 3 = 8

The ten-frame shows another addition fact. You have 8. Make 10. Add 2.

2 boxes are empty. Add 2.

8 + 2 = 10

Guided Practice
Look at the ten-frames. Write an addition fact with 5. Then write an addition fact for 10.

1. $5 + 2 = 7$
 $7 + 3 = 10$

2. $5 + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = 10$

3. $5 + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = 10$

4. $5 + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = 10$

Do you understand? How does a ten-frame help you add $5 + 4$?

Independent Practice
Look at the ten-frames. Write an addition fact with 5. Then write an addition fact for 10.

5. $5 + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = 10$

6. $5 + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = 10$

7. $5 + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = 10$

8. $5 + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = 10$

Algebra Write the missing number.

9. $8 + \underline{\quad} = 10$

10. $6 + \underline{\quad} = 10$

130 one hundred thirty

one hundred thirty-one 131

To follow along with this guide, teachers can open their grade-level Topic Teacher’s Edition.



Assess Topic Readiness

Is it helpful to know whether or not students have the prerequisite skills they need for success in the upcoming topic?

Turn to the Topic Opener page in the appropriate Topic Teacher's Edition, and look at the Review What You Know section. The problems in this section provide a quick topic readiness assessment. Teachers will also find in-depth Topic Readiness Tests online.

Review What You Know!

Vocabulary

Choose the best term from the box.

- fraction
- thirds
- denominator
- numerator

1. Three equal parts of a shape are called ?.
Thirds
2. A ? can name a part of a whole.
Fraction
3. The number below the fraction bar in a fraction is the ?.
Denominator

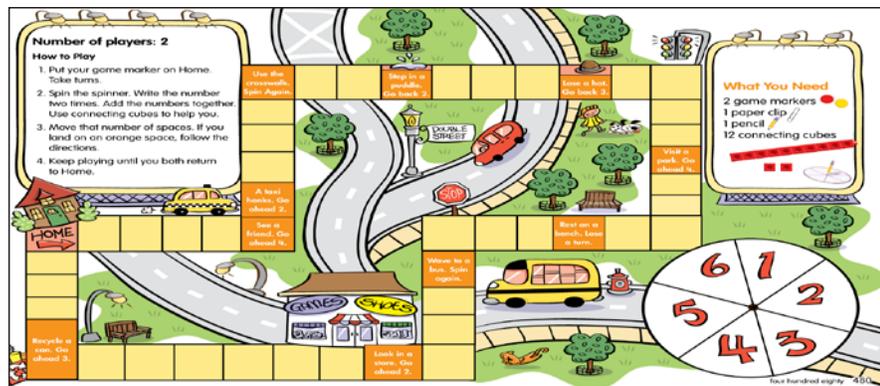
Division

Divide.

4. $454 \div 5$ 90 R4	5. $600 \div 3$ 200	6. $336 \div 4$ 84
7. $625 \div 5$ 125	8. $387 \div 3$ 129	9. $878 \div 7$ 125 R3
10. $240 \div 8$ 30	11. $816 \div 2$ 408	12. $284 \div 4$ 71
13. $626 \div 6$ 104 R2	14. $312 \div 3$ 104	15. $847 \div 9$ 94 R1

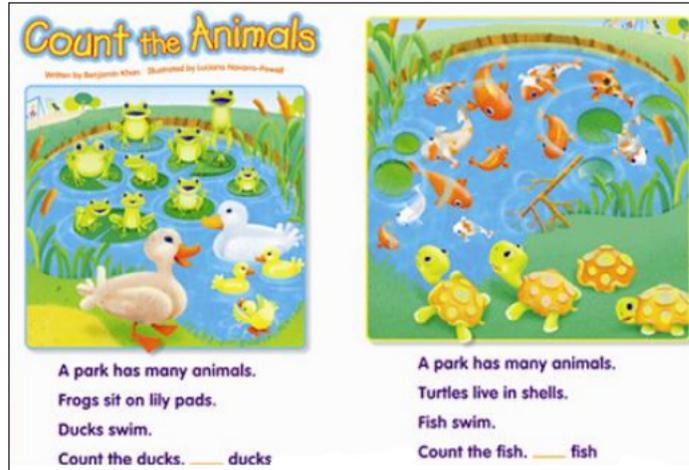
Topic Opener Activities

Now that students' topic readiness has been assessed, teachers are ready to introduce a new math topic with the Topic Opener activity. The purpose of the Topic Opener activity is to engage students in the math content and build background knowledge that prepares them for the content to come in the topic.

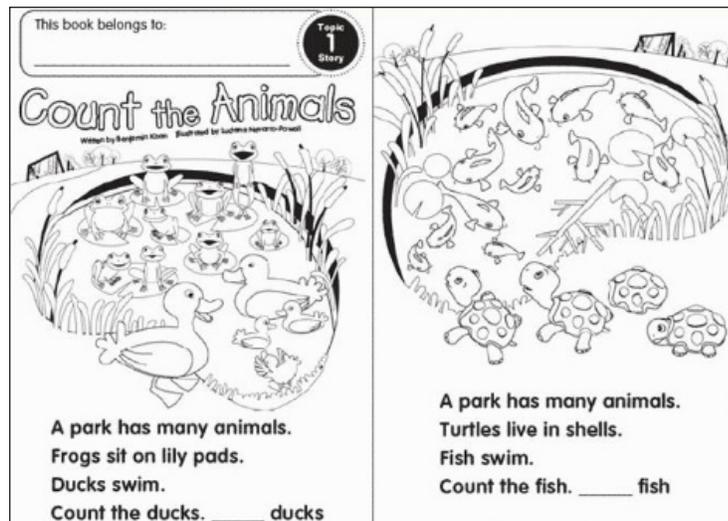


Primary Grades

For the primary grades, every topic begins with an Interactive Math Story. The Interactive Math Story sets the stage for future lessons by engaging students in the math content they will learn in the topic. For most topics, teachers can read the story from the Big Book or show the Interactive Math Story Animation on the computer.



Teachers will find a blackline master of the story online and on the Digital Teacher's Edition CD-ROM.



Provide each student with a copy of the story to increase their engagement. The Topic Teacher's Edition suggests ways students can read, gesture, color, write, and speak to show their understanding of the math in the story.

Intermediate Grades

The Topic Opener pages in the intermediate grade textbooks provide intriguing questions. Students will learn the answers to these questions as they complete the lessons.

▼ How many gallons of milk does an average milk cow produce each day? You will find out in Lesson 11-6.

For most topics, teachers can also show a thought-provoking Topic Opener Video to the whole class that provides a real-world example of the math concept. The videos are available online through the Digital Courseware. Teachers will also find a Print Partner worksheet online. This printable worksheet asks students to demonstrate what they learned in the video.

Home-School Connection

The Home-School Connection letter for primary grades provides a quick overview of the content that students will be learning during the upcoming topic. Teachers can read the letter to their students and have them sign it. The primary Topic Opener page also contains a game board with instructions for playing the game. This provides students an opportunity to practice foundational math skills. Teachers will find the Home-School Connection letter and game activity for intermediate grades online and on the Digital Teacher's Edition CD-ROM.

Dear Family,

Today my class started Topic 16, **Addition Facts to 18**. I will learn different ways to solve addition facts with sums up to 18. Here are some of the new math words I will be learning and some things we can do to help me with my math.

Love,

Review

This guide discussed introducing enVisionMATH Common Core topics. It talked about assessing for topic readiness using both the print and online resources. Finally, this guide looked at the Topic Opener activities available for primary and intermediate grade levels.

For more information, watch the other enVisionMATH tutorials on this Web site.