

Here are just a few examples of how students will develop and use their understanding of place value in grade three.

Students understand that 15 tens = 5 tens + 10 tens (or 1 hundred).

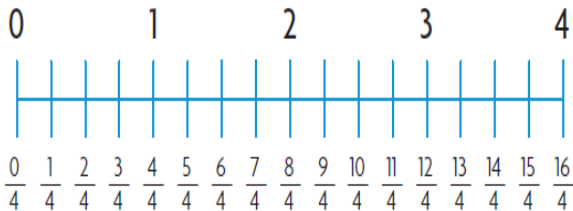
$$\boxed{5} \times \boxed{30} = 5 \text{ groups of } 3 \text{ tens} = 15 \text{ tens}$$

$$\boxed{15} = \boxed{1} \text{ hundreds } \boxed{5} \text{ tens } \boxed{0} \text{ ones}$$

Students use their understanding of place value as a strategy for multiplying one-digit numbers by multiples of ten. This will prepare them to multiply two multi-digit numbers in grade four.

Here are just a few examples of how students will learn about and work with fractions in grade three.

Using a number line helps students think of a fraction as a number.



Students begin to understand that fractions are sometimes the same quantity as a whole number ($8/4 = 2$) and whole numbers can be expressed as fractions ($3 = 12/4$).

Grade 3 Mathematics

- Determine a fraction's place on a number line by defining the length from 0 to 1 as the whole and "cutting it" into equal parts
- Understand two fractions as equal if they are the same size or at the same point on a number line
- Compare the size of two different fractions of the same size object. For example, which is bigger, $1/8$ of a pizza or $1/6$ of that same pizza?

Helping your child learn outside of school

1. Play math games with your child. For example, "I'm thinking of two numbers whose product is between 20 and 30. How many pairs can you think of that would satisfy this problem?" Have your child explain the solutions. How does he or she know that all the number pairs have been identified?
2. Encourage your child to write or describe numbers in different ways. For example, what are some different ways to make 1450? $1450 = 1$ thousand, 4 hundreds, 5 tens, and 0 ones, or $1000 + 450$, 14 hundreds and 50 ones, 13 hundreds + 15 tens, etc.
3. Use everyday objects to allow your child to explore the concept of fractions. For example, use measuring cups to have students demonstrate how many $1/3$'s are in a whole, how many $1/4$ cups you need to make $1 1/4$ cups, and how many times you have to refill a $1/2$ cup measure to make $1 1/2$ cups.
4. Encourage your child to stick with it whenever a problem seems difficult. This will help your child see that everyone can learn math.
5. Praise your child when he or she makes an effort and share in the excitement when he or she solves a problem or understands something for the first time.

Parent ROADMAP

to
California Common
Core
Standards
3rd Grade

To view Common Core State Standards:
www.cde.ca.gov/re/cc/index.asp



The way we taught students in the past simply does not prepare them for the higher demands of college and careers today and in the future. Your school and schools throughout the country are working to improve teaching and learning to ensure that all children will graduate high school with the skills they need to be successful.

SUPPORTING YOUR CHILD IN GRADE 3 ENGLISH LANGUAGE ARTS

In grade three, students will build important reading, writing, speaking, and listening skills. They will think, talk, and write about what they read in a variety of articles, books, and other texts. In their writing, students will pay more attention to organizing information, developing ideas, and supporting these ideas with facts, details, and reasons.

Activities in these areas will include:

- Reading a wide range of stories and describing how a story teaches a lesson
- Describing characters in a story and how their actions contributed to events
- Reading texts about history, social studies, or science and answering questions about what they learned
- Referring to information from illustrations such as maps or pictures as well as the words in a text to support their answers
- Learning the rules of spoken and written English
- Learning and using new words, including words related to specific subjects (such as science words)
- Participating in class discussions by listening, asking questions, sharing ideas, and building on the ideas of others
- Giving a class presentation on a topic or telling a story using relevant facts and details and speaking clearly
- Writing stories with dialogue and descriptions of character's actions, thoughts, and feelings
- Gathering information from books, articles, and online sources to build understanding of a topic
- Writing research or opinion papers over extended periods of time

READING LITERATURE

Grade 3 Reading

- Students recount stories and determine the central message, lesson, or moral, explaining how it is developed in the text.
- Students distinguish their own point of view from that of the narrator or those of the characters.

READING FOR INFORMATION

Grade 3 Reading

- Students ask and answer questions about what they read by referring directly to parts of the text.
- Students use information gained from images or illustrations.

Grade 3 Writing

- Students introduce a topic and use facts, definitions, and details to develop points.
- Students provide a concluding statement or section.
- Students group related information together.
- Students use linking words and phrases to connect ideas, such as *also*, *another*, and *but*.

Helping your child learn outside of school

1. Provide time and space for your child to read independently. This time should be free from distractions such as television.
2. Ask your child what topics, events, or activities he or she likes. Then look for books, magazines, or other materials about those topics that would motivate your child to read.
3. It is also helpful when your child sees other people reading at home. You could share what you have read.
4. Start a family book club. Let different members of the family pick the book. This could be a good way to enjoy quality family time while experiencing the joy of reading together!
5. Be sure your child has a library card. Children should select books they are interested in to develop a passion for reading. Many libraries have book clubs and family activities that make reading fun for the entire family.
6. Use technology to help build your child's interest in reading. There are several websites where students can read books or articles online. The computer will help with words the student cannot read independently. Libraries also have computers students can use to access those sites. Feel free to ask a librarian or teacher for suggestions.

SUPPORTING YOUR CHILD IN GRADE 3 MATHEMATICS

In grade three, students will continue to build their concept of numbers, developing an understanding of fractions as numbers. They will learn the concepts behind multiplication and division and apply problem-solving skills and strategies for multiplying and dividing numbers up through 100 to solve word problems. Students will also make connections between the concept of the area of a rectangle and multiplication and addition of whole numbers.

Activities in these areas will include:

- Understanding and explaining what it means to multiply or divide numbers
- Multiplying all one-digit numbers from memory (knowing their times table)
- Multiplying one-digit numbers by multiples of 10 (such as 20, 30, 40)
- Solving two-step word problems using addition, subtraction, multiplication, and division
- Understanding the concept of area
- Relating the measurement of area to multiplication and division
- Understanding fractions as numbers
- Understanding and identifying a fraction as a number on a number line
- Comparing the size of two fractions
- Expressing whole numbers as fractions and identifying fractions that are equal to whole numbers (for example, recognizing that $\frac{3}{1}$ and 3 are the same number)
- Measuring weights and volumes and solving word problems involving these measurements

Grade 3 Mathematics

- Use place value understanding to round whole numbers to the nearest 10 or 100
- Quickly and accurately add and subtract numbers through 1000 using knowledge of place value
- Use place value understanding to multiply and divide numbers up through 100
- Multiply one-digit whole numbers by multiples of 10 between 10 and 90. For example, 9×80 or 5×60