

THIRD GRADE

COMMON CORE

MATH

AND

ENGLISH LANGUAGE ARTS

OVERVIEW

FOR PARENTS

Mathematics | Standards for Mathematical Practice for All Grades

The Standards for Mathematical Practice describe behaviors that all students will develop in the Common Core Standards. These practices rest on important “processes and proficiencies” including problem solving, reasoning and proof, communication, representation, and making connections. These practices will allow students to understand and apply mathematics with confidence.

- Make sense of problems and persevere in solving them.
 - Find meaning in problems
 - Analyze, predict and plan solution pathways
 - Verify answers
 - Ask themselves the question: “Does this make sense?”

- Reason abstractly and quantitatively.
 - Make sense of quantities and their relationships in problems
 - Create coherent representations of problems

- Construct viable arguments and critique the reasoning of others.
 - Understand and use information to construct arguments
 - Make and explore the truth of conjectures
 - Justify conclusions and respond to arguments of others

- Model with mathematics.
 - Apply mathematics to problems in everyday life
 - Identify quantities in a practical situation
 - Interpret results in the context of the situation and reflect on whether the results make sense

- Use appropriate tools strategically.
 - Consider the available tools when solving problems
 - Are familiar with tools appropriate for their grade or course (pencil and paper, concrete models, ruler, protractor, calculator, spreadsheet, computer programs, digital content located on a website, and other technological tools)

- Be precise.
 - Communicate precisely to others
 - Use clear definitions, state the meaning of symbols and are careful about specifying units of measure and labeling axes
 - Calculate accurately and efficiently

- Look for and make use of structure.
 - Discern patterns and structures
 - Can step back for an overview and shift perspective
 - See complicated things as single objects or as being composed of several objects

- Look for and identify ways to create shortcuts when doing problems.
 - When calculations are repeated, look for general methods, patterns and shortcuts
 - Be able to evaluate whether an answer makes sense

Grade 3 Overview | Mathematics

Third grade students develop an understanding of multiplication and division and learn to fluently multiply and divide within 100. Students are expected to know from memory all products of two one-digit numbers by the end of third grade. Place value understanding is used for multi-digit computation and estimation. Fractions are introduced in the third grade with an emphasis on understanding fractions as numbers and their relative size and placement on the number line. In third grade students understand concepts of area and perimeter and solve problems using liquid volume and mass.

- Solve multiplication and division word problems
- Understand the properties of multiplication

- Commutative property of multiplication:

If you know $6 \times 4 = 24$, then you know $4 \times 6 = 24$.

- Associative property of multiplication:

$3 \times 5 \times 2$ can be found by $3 \times 5 = 15$, then $15 \times 2 = 30$,
or by $5 \times 2 = 10$, then $3 \times 10 = 30$.

- Distributive property of multiplication:

$$\text{If } 8 \times 5 = 40$$

$$\text{and } 8 \times 2 = 16,$$

then 8×7 is:

$$8 \times (5 + 2)$$

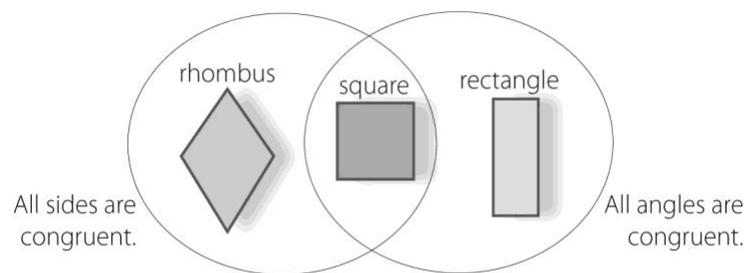
$$(8 \times 5) + (8 \times 2)$$

$$40 + 16 = 56.$$

- Fluently multiply and divide within 100
- Know all products of two one-digit numbers
- Solve word problems with addition, subtraction, multiplication, and division
- Understand that multiplication and division are related
- Use place value to round numbers and know the value of each digit in a four-digit number
- Use place value understanding to solve multi-digit arithmetic
- Estimate reasonable answers using place value knowledge

(continued)

- Understand fractions as numbers
- Recognize simple equivalent fractions
- Compare two fractions with the same numerator or the same denominator
- Know that 25 cents is $\frac{1}{4}$ of a dollar, 50 cents is $\frac{1}{2}$ of a dollar and 75 cents is $\frac{3}{4}$ of a dollar
- Tell and write time to the nearest minute
- Estimate and measure time, volume, and weight
- Understand area and perimeter
- Understand that shapes in different categories can also be in a larger category



Grade 3 Overview | English Language Arts

Third grade students interact with literature and informational text by comparing and contrasting stories, discussing a point of view and comparing it with the author's, and describing a series of events, ideas, or concepts. Along with their reading, third grade writing is more sophisticated. Students produce developed, focused, organized, and edited work. In writing informational pieces, they include charts or graphs and supply facts.

Reading

- Describe how characters' actions contribute to the events
- Compare and contrast stories
- Independently read and understand grade-level literature
- Describe a series of events, ideas, or concepts
- Discuss a point of view and compare it to that of the author

Reading: Foundational Skills

- Use grade-level phonics and word analysis skills
 - Read words with multiple syllables, e.g., mosquito, puppeteer
- Know the meanings of most common prefixes and suffixes
- Read accurately and with understanding

Writing

- Write opinion pieces that include a chart or graph and list reasons that support the opinion
- Write informative pieces that name the topic, supply facts, and use linking words and phrases
- Write narrative pieces that introduce a narrator and characters, and write about what the characters say, think, and feel
- Produce writing that is developed, focused, organized, and edited

Speaking and Listening

- Follow rules for discussions by building on what others are saying
- Recall ideas and details from something read aloud
- Plan and deliver an informative presentation
- Speak clearly and in complete sentences

Language

- Use correct grammar
- Write legibly in cursive or joined italics; use margins and spacing
- Choose words and phrases for effect
- Use a variety of sentence types
- Capitalize appropriate words
- Correctly add suffixes to base words
 - Sitting, smiled, cries
- Recognize the differences between spoken and written standard English

