



4th Grade Math Reference Sheet

Overview of 4th Grade Math this year:

- Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction
- Module 2: Multi-Digit Multiplication and Division
- Module 3: Angle Measure and Plane Figures
- Module 4: Fraction Equivalence, Ordering, and Operations
- Module 5: Unit Conversions and Problem Solving with Metric Measurement
- Module 6: Decimal Fractions
- Module 7: Exploring Multiplication

Summary of Year

Fourth grade mathematics is about (1) developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends; (2) developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers; and (3) understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry.

Key Areas of Focus for 3-5: Multiplication and division of whole numbers and fractions—concepts, skills, and problem solving

Required Fluency: 4.NBT.4 Add and subtract within 1,000,000.

Examples of 4th Grade Word Problems with Tape Diagrams

Example 1: At a parade, 97,853 people sat in bleachers. 388,547 people stood along the street. How many fewer people were in the bleachers than standing along the street?

$$\begin{array}{r}
 88,547 \\
 - 97,853 \\
 \hline
 290,694
 \end{array}$$

There were 290,694 fewer people in the bleachers than along the street.

Example 2: A pair of hippos weighed 5,201 kg together. The female weighed 2,038 kg. How much more did the male weigh than the female?

$$\begin{array}{r}
 5,201 \\
 - 2,038 \\
 \hline
 3,163
 \end{array}$$

$$\begin{array}{r}
 1,63 \\
 - 2,038 \\
 \hline
 1,125
 \end{array}$$

The male hippo weighed 1,125 kg more than the female hippo.

Example 3: There were 12,345 people at a concert on Saturday night. On Sunday night, there were 1,795 fewer people at the concert than on Saturday night. How many people attended the concert on both nights?

$$\begin{array}{r}
 12,345 \\
 - 1,795 \\
 \hline
 10,550
 \end{array}$$

$$\begin{array}{r}
 12,345 \\
 + 10,550 \\
 \hline
 22,895
 \end{array}$$

22,895 people attended the concert on both nights.

Example 4: Last year, Big Bill's Department Store sold many pairs of shoes: 118,214 pairs of boots were sold; 37,092 more pairs of sandals than pairs of boots were sold; and 124,417 more pairs of sneakers than pairs of boots were sold. How many pairs of shoes were sold last year?

$$\begin{array}{r}
 118,214 \\
 + 37,092 \\
 \hline
 155,306
 \end{array}$$

$$\begin{array}{r}
 118,214 \\
 + 124,417 \\
 \hline
 242,631
 \end{array}$$

$$\begin{array}{r}
 155,306 \\
 242,631 \\
 + 118,214 \\
 \hline
 516,151 = s
 \end{array}$$

516,151 pairs of shoes were sold last year.

4th Grade ELA Strategies

Strategy

Example

CLOSE Reading- a strategy to help with comprehension

- Students annotate while they read
- Circle unknown words
- Underline important idea
- Write questions on the side

Annotating- a strategy to help students understand what is being ask of them

Echo the question: a strategy to help students begin writing their response.

- Underline the important words you can use in your sentence

Provide evidence to support your answer: a direction that helps students earn points in their writing.

- Cite things that were said in the text

1. Before Breakfast *alliteration*

“HERE’S Papa going with that one?” said Fern to her mother as they were setting the table for breakfast. “Out to the hoghouse,” replied Mrs. Arable. “Some pigs were born last night.” “I don’t see why he needs an ax,” continued Fern, who was only eight. *placable* *nature*

“Well,” said her mother, “one of the pigs is a runt. It’s very small and weak, and it will never amount to anything. So your father has decided to do away with it.”

“Do away with it?” shrieked Fern. “You mean kill it? Just because it’s smaller than the others?”

Mrs. Arable put a pitcher of cream on the table. “Don’t yell, Fern!” she said. “Your father is right. The pig would probably die anyway.”

Fern pushed a chair out of the way and ran outdoors. The grass was wet and the air smelled of springtime. Fern’s sneakers were sopping by the time she caught up with her father. *kill plan + goes with eating in a farm* *spring pig*

Sense

According to the text,
how do you know
Danny wants peace?

According to the text,
the main purpose
Danny wants peace is
because in chapter
eight he says, “ I
don’t want to be
enemies anymore”.