GeniusKite

Kids' Thinking Skills

Math Workbook

Grade 4

Ages 9-10



Math Practice and Thinking Challenges

GeniusKite Team

Math Thinking for Parents

A short guide / 1 of 2

How each section works

Every section has six pages. The first page starts with a short "learn it" box that explains the idea in plain words. The next pages give practice, then a screen-free hands-on activity, and the last page is a thinking challenge where your child explains, checks or spots a mistake.

Place value is the key

Grade 4 numbers go up to 1,000,000. Multiplying and dividing big numbers both rest on place value: 4 x 326 is 4 x 300 + 4 x 20 + 4 x 6. Encourage area models and break-apart strategies before the column method.

Remainders make sense

Division now has remainders. Ask what the remainder means in the story: sometimes you round up (one more van), sometimes it is left over (extra cookies).

Fractions and decimals

Children make equivalent fractions, compare fractions, add and subtract fractions with like denominators, and connect tenths and hundredths to decimals. Dimes and pennies are a great model: a dime is 0.1 of a dollar.

MATH / WARM-UP

What Is It Worth?



Name: _____ Warm-up 1 / 3

Read each question. Write your answer on the line.

In 482,615 the 4 is in the hundred thousands place (400,000), the 8 is 80,000, the 2 is 2,000, then 600, 10 and 5. Each place is worth 10 times the place to its right. To round, look at the digit just to the right of the rounding place: 0-4 rounds down, 5-9 rounds up.

1. What is the value of the 7 in 374,206?

2. What is the value of the 5 in 805,113?

3. Write 300,000 + 40,000 + 6,000 + 20 + 9 as one number.

4. What number is 10,000 more than 452,380?

5. What number is 1,000 less than 61,045?

6. How many times greater is the 6 in 600 than the 6 in 60?

7. Write "two hundred five thousand, thirty" as a number.

8. What is the value of the 9 in 19,482?



Pip's tip: Each place is 10 times the place to its right.