

Math Problems for Fourth Grade - Number Sense

4N-29)

Place any of the four operation signs between the nine figures so that they equal 100. $1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9 = 100$ Write to help explain your best thinking using words, numbers, or pictures.

4N-28)

The city bus left the terminal and picked up 5 people at the first stop. At the second stop, 2 people got off and 4 people got on. At the third stop, 3 people got off and 5 got on. How many passengers were now on the bus? Explain your thinking using words, numbers, or pictures.

4N-27)

The new city of Graphville is laid out on a grid. There are 87 avenues that all run from north to south. There are 63 streets that all run from east to west. The avenues intersect the streets, and there is a traffic light at each intersection. How many traffic light are there? Explain your thinking using words, numbers, or pictures.

4N-26)

How many times does the digit nine appear in the numbers from 1 to 100? Explain your thinking using words, numbers, or pictures.

4N-25)

Julie was reading a book that had 128 pages in it. Figure out how many number sixes there were in all the page numbers. Write to help explain your best thinking using words, numbers, or pictures.

4N-24)

Briana was looking through her math book and discovered that after page 44 the next page was 51. How many pages were torn out of the book? Explain your thinking using words, numbers, or pictures.

4N-23)

What numbers less than 100 make eight when the digits are added together? (example 17 is a solution because $1+7=8$) Explain your thinking using words, numbers, or pictures.

4N-22)

Farmer Ruth raises cows and geese. One day she looks out into her field and sees some of each kind of animal. Altogether she sees 20 feet. How many cows and how many geese does she see? Give all possible answers. Explain your thinking using words, numbers, or pictures.

4N-21)

Richard was collecting shells on the beach. He gave 5 shells to Robin and 3 shells to Sarah. He has 8 shells left. How many did he collect? Explain your thinking using words, numbers, or pictures.

4N-20)

There are 30 children standing in a straight line in Mrs. Johnson's third-grade class. Every 4th child is wearing glasses. Every 3rd child is a boy. Every 2nd child is wearing a red shirt. What can you say about the 12th, 18th, and 24th children? Explain your thinking using words, numbers, or pictures.

4N-19)

Linda wants to clean her fish tank. She is putting her fish into a bowl. She picked up three fish in a net, but one jumped back into the tank. She put the two fish into the bowl. Then she put the remaining five fish into the bowl. How many fish does Linda have? Write to help explain your best thinking using words, numbers, or pictures.

4N-18)

Tanya has 55 cents in her pocket in nickels and dimes. What is the smallest number of coins she can have? What are they? What is the largest number of coins she can have? What are they? Write to help explain your best thinking using words, numbers, or pictures.

4N-17)

Stuart's dog Barney wagged his tail. Barney had never seen so many dogs at once. Stuart counted up all the dogs at the dog show: the number is greater than 195; the number is less than 300; if you count by 10s you say its name; it can be divided evenly by 3 and 9. How many dogs did Stuart count? Explain your thinking using words, numbers, or pictures.

4N-16)

Conrad was scared as he knocked on the door. A low voice said, "Before I open the door you must name the secret number." Here are some clues: it is greater than 275; it is less than 325; if you count by 5s you say its name; it can be divided evenly by 3 and 9. What is the secret number? Explain your thinking using words, numbers, or pictures.

4N-15)

Yolanda and Mary are playing a game with a timer and three dice. Each player rolls three dice and uses the three numerals rolled to make 3-digit numbers. A numeral can only be used once in a number. Each number is worth 10 points. Mary rolls 3, 6, and 5. How many points can she earn? Explain your thinking using words, numbers, or pictures.

4N-14)

The magic show was almost over. Mario was getting ready to do his famous banner trick. He pulled banners made out of flags from a top hat. First he pulled out a banner made up of 14 flags. Next he pulled out a banner made up of 23 flags. The third banner was made up of 18 flags, and the fourth banner was made up of 27 flags. The fifth banner was made up of 22 flags. Mario stopped his banner trick when there were more than 50 flags in the banner. How many banners did Mario pull out of the hat? Write to help explain your best thinking using words, numbers, or pictures.

4N-13)

Sara asked, "Where do you see the fraction $\frac{23}{30}$ most often?" Can you answer Sara's question? Write to help explain your best thinking using words, numbers, or pictures.

4N-12)

How many three-digit numbers contain only the digits 5 and 6? What are they? Explain your thinking using words, numbers, or pictures.

4N-11)

There are 23 students in the class. All but 9 went outside for recess. How many students stayed inside? Write to help explain your best thinking using words, numbers, or pictures.

4N-10)

Use the numbers 2, 5, and 3. What is the least number you can get if you multiply two of the numbers and add the third to the product? What is the greatest number you can get? Write to help explain your best thinking using words, numbers, or pictures.

4N-9)

Make up a word problem that has 42 as its solution. Explain how someone could solve the problem. Write to help explain your best thinking using words, numbers, or pictures.

4N-8)

I am a number between 31 and 41. I am a multiple of 3. I am an even number. What number am I? Write to help explain your best thinking using words, numbers, or pictures.

4N-7)

Sam had \$12. Then he spent one fourth of the money on a book. How much money did Sam have left? Write to help explain your best thinking using words, numbers, or pictures.

4N-6)

Write a word problem that can be solved by finding 45 divided by 2. Then solve your problem. Write to help explain your best thinking using words, numbers, or pictures.

4N-5)

A window in Helen's house is made up of 12 small panes of glass. While playing baseball, she accidentally broke 4 of the panes. What fraction of the panes were not broken? Write to help explain your best thinking using words, numbers, or pictures.
4N-4)

Jim bought a bunch of grapes. He ate one half of the grapes. Then his friend Gary ate one fourth of the remaining grapes. There were 6 grapes left. How many grapes were in the bunch to begin with? Write to help explain your best thinking using words, numbers, or pictures.

4N-3)

Judy needs 5 pounds of flour to bake some cookies. She has three partially filled bags of flour. They contain one and one fourth pounds, two and one fourth pound, and three fourths pound. Does Judy have enough flour to bake the cookies? Explain your thinking using words, numbers, or pictures.

4N-2)

Kim, Judy, and Mary decided to equally share the cost of a present for their friend. Kim spent \$7, Judy spent \$3, and Mary spent \$2. How much did each person pay the others so that everyone spent the same amount? Explain your thinking using words, numbers, or pictures.

4N-1)

Ed jogs every third day, Ned jogs every 4th day, and Fred jogs every 6th day. If they all jogged today, when will they all jog on the same day again? Write to help explain your best thinking using words, numbers, or pictures.