

Math Challenge #5




First Name: _____ Last Name: _____ Grade: _____
 Teacher: _____ Parent's email: _____

Guess the Number! Math Riddle

Welcome to the Math Challenge #5. This challenge is full of math riddles! Try to figure out each number by reading carefully the clues given. Simple problems can be solved by 'working backward'. However, a combination of two strategies (for examples, work backward and use logical reasoning or make a list and use logical reasoning) sometimes work best for solving more complex problems. Enjoy this challenge and don't forget to ask your parents and siblings to help you solve these math problems.

Kinder & First Grade: solve at least 3 problems.
Second & Third Grade: solve at least 7 problems.
Fourth Grade and above: solve at least 12 problems.

Answer

1. Daniel's secret number is an even number less than 10 but larger than 6. What is his mystery number?	
2. Myra's secret number has the following clues: <ul style="list-style-type: none"> • It is more than $7 + 3$. • It is less than $8 + 5$. • It's also an odd number. What is Myra's secret number?	
3. Lidia counted by twos. She started at 10 as the first number she said. What was the fifth number she would say?	
4. Tia's secret number is an even number. It is between 50 and 60. Its ones digit is the number of wheels on 2 bikes. What is Tia's secret number?	
5. The children from Rockwell's neighborhood had a big summer picnic. Children from different street corners came. Mrs. Gibson counted the number of children were at the picnic. Larissa asked her how many children came to the picnic, and Mrs. Gibson gave her these clues: <ul style="list-style-type: none"> • There were more than 45. • There were fewer than 54. • There was an even number of children. • The ones place is not 2 or 0. • The ones place is not 6 either. How many children came to the big picnic? <div style="text-align: right; margin-top: 10px;">  </div>	
6. Mr. Sutherland is thinking of a number. It is less than 98. It is more than 91. If you count by 5 you will say this number. What number is Mr. Sutherland thinking of?	
7. Alfred gave these clues about his secret number: Count by tens out loud and start with the number 525. The 8 th number you will say is my secret number. What is Alfred's secret number?	

8. Mr. Miller is thinking of two numbers. The two numbers have a product of 20 and a sum of 9. What are the two numbers?

9. Laura's secret number has the following clues:

- I am more than 650.
- I have the digit 8 in the ones place.
- I am less than 750.
- The sum of my three numbers is 18.

What is Laura's secret number?

10. Bo's mystery number is an even number. It has four digits, and the digits add up to 3. If he rounds his number to the nearest thousands place, he will get 1000. If he rounds his number to the nearest tens, he will still get 1000. What is Bo's mystery number?

11. Rhea's secret number is a three-digit number. The hundred's digit is an even number between 5 and 8. The ten's digit is 3 less than the hundred's digit. The one's digit is the hundred's digit plus the ten's digit. What is Rhea's secret number?

12. Lewis secret number has 4 digits and it is a palindrome. A palindrome is a number that is the same when written forwards or backwards. The tens digit is the number of eyes you have. The ones digit is five more than the tens digit. What is his secret number?

13. Grace's mystery number is a three-digit number that is larger than 400 but less than 730. All three digits are odd and are different numbers. The sum of the digits is 11.

14. A list of clues is given to uncover Lisa's mystery number:

- The mystery number has 3 digits
- The sum of the digits is 12
- The number is less than 500
- The product of its digits is 50.

What is Lisa's mystery number?

15. I am a two-digit number. The sum of my digits is 11. If my digits are reversed, I will be 45 less than who I am. Who am I?

16. Pete has the following clues to find Sam's secret number.

- It is a factor of 30
- It is not a prime number
- It is not a multiple of 3
- It is not less than 3.

What is Sam's secret number?

17. Mr. Livingston's secret number has the following clues:
- Rounded to one significant figure, the number is 10,000.
 - The number has 7 hundreds.
 - It has 9 in its ones digit as well as in its hundredths digit.
 - The number has 8 tenths.
 - The 5th and the 7th digits are the same.
 - There are two digits after the decimal point.
 - To the nearest thousand, the number can be rounded to 15,000.
 - There are two sevens.

18. Mr. Zeek's secret number is the sum of three consecutive prime numbers and is also the product of two 2-digit prime numbers, what is the least possible value of Mr. Zeek's number?

Solution is available on December 13, 2019 at www.mathinaction.org

Good luck to all who are participating at the MCT this year!