

NUMBER RIDDLES

Solve these number riddles. It may help to make a list of possible numbers after you have gone through three or four clues.

a. I am thinking of a number.

- It is odd.
- It is between 1 and 100.
- It is greater than 20.
- It is less than the answer to 6 times 6.
- It is a multiple of 5.
- The sum of its digits is 7.

What is the number? _____

b. I am thinking of a number.

- It is a multiple of 3.
- It is not even.
- It is greater than 20.
- It is less than the answer to 7×6 .
- The sum of its digits is even.
- The two digits in the number are the same.

What is the number? _____

c. I am thinking of another number.

- It is greater than the answer to 5×10 .
- It is less than 100.
- It is even.
- It is not 70 or less.
- It is not a multiple of 4.
- It is not a multiple of 3.
- It is less than 80.

What is the number? _____

d. Make up a number riddle of your own. Use 4, 5, or 6 clues. Be sure that your clues lead to only one number. No clue should give away the number by itself. When you have finished your clues, have a classmate try your number and tell you if the clues make sense and if only one number is possible.

Mystery Number Clues by Fifth Graders

My number is

- less than 40.
 - greater than 10.
 - not a multiple of 2.
 - not a multiple of 3.
 - The sum of the digits is 5
- 23

My number is ...

- more than 8×8 .
- divisible by 9.
- not more than 10×10 .
- not divisible by 5.
- not even.
- the sum of its digits is a double digit number.

99

My number is...

- not even.
- The sum of its digits is less than 8×2
- less than 400 and greater than 160
- All of the digits are odd.
- The ones digit is larger than the tens digit.
- The tens digit is larger than the hundreds digit.

357

My number is ...

- not even.
 - not more than 100.
 - greater than 30.
 - less than $(7 \times 5) - 5 + (6 - 1)$.
 - not a multiple of 4.
 - a multiple of 3
- 33

My number is...

- less than 50×2 .
- odd.
- more than 7×9 .
- a palindrome
- not a multiple of three

77

My number is ...

- an even number greater than 10.
- less than 40.
- a multiple of 4.
- The sum of the digits is smaller than 6.
- If you multiply this number by 4, the product is not greater than 57

12

My number is

- even.
- a multiple of 3.
- a multiple of 4.
- greater than 6×6
- between 150 and 180
- The sum of the digits is 12

156

My number is...

- less than 5×6 .
- greater than 20.
- a multiple of 2.
- not a multiple of 4.
- a multiple of 11.

22

My number is...

- not even.
- between 1 and 50.
- not a multiple of 5 or 9.
- greater than 20.
- It has a remainder when divided by 4.
- When its two digits are added they equal 3

21

My number is...

- an odd 2-digit number
- less than 40.
- greater than $30 \div 2$.
- a prime number.
- greater than 20.
- The sum of the digits is 10

37