



## Seven's Secret



Star Brilliant, host of Quizzo in [Mighty Math Number Heroes](#), challenges kids to test their wits in math and logic against wacky contestants or their friends. Today, Star has a riddle for you.



To learn the answer, solve the Number Puzzles below. As you solve each puzzle, use the Secret Code chart to find the letter that matches your answer. Then, write that letter into the riddle above the puzzle number. For example, if the answer to Puzzle 1 were 47 (it isn't), you would look in the chart to see that  $47 = k$ , and then you would write the letter k above the number 1 in the riddle. Good luck!



Answer Letters:  
 Riddle Numbers:  $\overline{10}$   $\overline{1}$   $\overline{3}$   $\overline{9}$   $\overline{4}$   $\overline{5}$   $\overline{5}$   $\overline{10}$   $\overline{7}$   $\overline{9}$   $\overline{2}$   $\overline{9}$   $\overline{10}$   $\overline{10}$   $\overline{9}$   $\overline{6}$   $\overline{8}$

### Secret Code

2 = m	35 = o	166 = q	1179 = v
3 = a	40 = d	236 = h	1593 = y
5 = u	45 = i	248 = w	1971 = e
6 = l	47 = k	462 = g	2814 = n
29 = c	83 = p	624 = r	4614 = t
15 = x	77 = f	507 = s	7035 = b
	91 = z	719 = j	

1. I am a 1-digit number.  
I am a prime number less than 7.  
I am an odd number.  
I am a factor of 39.

*Number = \_\_, so the letter for blank #1 is \_\_.*

3. I am a 2-digit number.  
The sum of my digits is 11.  
I am an odd number.  
My ones digit is 3 more than my tens digit.

*Number = \_\_\_\_, so the letter for blank #3 is \_\_.*

5. I am a 2-digit number.  
I am a multiple of 7.  
Both of my digits are odd.  
When you multiply my digits together, the result is a multiple of 7.

*Number = \_\_\_\_, so the letter for blank #5 is \_\_.*

7. I am a 3-digit number.  
My hundreds digit multiplied by my tens digit equals my ones digit.  
My digits are in left-to-right order from smallest to largest.  
My digits are not all even, and none of them are the same.

*Number = \_\_\_\_, so the letter for blank #7 is \_\_.*

9. I am a 4-digit number.  
I am less than 2,000.  
All of my digits are odd.  
The sum of my digits is 18.  
If you subtract my ones digit from my hundreds digit, the result is 8.

*Number = \_\_\_\_, so the letter for blank #9 is \_\_.*

2. I am a 1-digit number.  
I am even.  
I am a factor of 54.  
I am not a prime number.

*Number = \_\_, so the letter for blank #2 is \_\_.*

4. I am a 2-digit number.  
I am a multiple of 5.  
I am less than 50.  
The sum of my digits is 8.

*Number = \_\_\_\_, so the letter for blank #4 is \_\_.*

6. I am a 3-digit number.  
The sum of my digits is 12.  
My hundreds digit is 2 more than my ones digit.  
All my digits are even.  
My ones digit plus my tens digit equals my hundreds digit.

*Number = \_\_\_\_, so the letter for blank #6 is \_\_.*

8. I am a 3-digit number.  
My hundreds digit is 2 less than my ones digit.  
I am greater than 450.  
The sum of my digits is 12.

*Number = \_\_\_\_, so the letter for blank #8 is \_\_.*

10. I am a 4-digit number.  
My last two digits are a multiple of 7.  
The sum of my first two digits is double the sum of my last two digits.  
My first digit and my last digit are equal.

*Number = \_\_\_\_, so the letter for blank #10 is \_\_.*

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