

Mystery Numbers

Mystery Number 1: Here are your clues!! I call this a Level 1.

First clue – I am a two-digit number.

Second clue – My tens digit is a multiple of my ones digit.

Third clue – The sum of my digits is nine.

And the number is? _____

Mystery Number 2: Here are your clues. This one's a Level 2 (a little harder.)

First clue – I am a three-digit number.

Second clue – I am an odd number.

Third clue - All my digits are the same.

Fourth clue – The product of my digits is 27.

And the number is? _____

Mystery Number 3: I call this one a Level 3!

First clue – I am a four-digit number.

Second clue – My ones digit is a four.

Third clue – My thousands digit is twice the value of the ones digit.

Fourth clue – My hundreds digit is one less than the thousands digit.

Fifth clue – The sum my digits is 25.

And the number is? _____

Mystery Number 4: Let's do another Level 3 problem.

First clue – I am a _____ digit number.

Right!! You're catching on. A Level 3 problem involves a four-digit number.

Second clue – My thousands digit is even and is a multiple of 3.

Third clue – My ones digit is an even number and 1 less than my tens digit.

Fourth clue – My hundreds digit is three more than my thousand's digit.

Fifth clue – My tens digit is is equal to my hundreds digit.

And the number is? _____

KEY: Mystery Number 1 = 63; 2 = 333; 3 = 8764; 4 = 6998

Mystery Number Checklist

Name:

Each mystery number you create is worth 40 points. Use the following checklist when preparing your clues. Remember to create three mystery numbers, each one at a different level.

Mystery Number One

1. _____ Level One (2 digit)
2. _____ Mathematical vocabulary used (odd, even, multiple, sum, product, difference, equal, digit, ones, tens).
3. _____ At least one operation is used.
4. _____ Clues given for each digit.
5. _____ Clues lead to the correct solution of the mystery number.

Mystery Number Two

1. _____ Level Two (3 digit)
2. _____ Mathematical vocabulary used (including place value vocabulary for each digit – ones, tens, hundreds).
3. _____ At least two operations are used.
4. _____ Clues give for at least two of the digits.
5. _____ Clues lead to the correct solution of the mystery number.

Mystery Number Three

1. _____ Level Three (4 digit)
2. _____ Mathematical vocabulary used.
3. _____ At least three operations are used.
4. _____ Clues given for at least 3 of the digits.
5. _____ Clues lead to the correct solution of the mystery number.

Each item is worth 8 points. Write the clues for your *Mystery Number* on the front of the card. On the back of the card, illustrate the *Mystery Number* with a model or write the number in words or in expanded notation to show the number's value.

