

# NOMBRES - Curiosités, théorie et usages

## CHIFFRES des NOMBRES

### et leurs combinaisons

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#### Définition

Les chiffres d'un nombre. Quelles sont toutes les combinaisons obtenues avec ces chiffres ?

Pour un nombre à n chiffres, il suffit d'examiner la plus petite combinaison des chiffres. Par exemple, 123 sera représentatif de 132, 213, ... Ces nombres tête de liste ont des chiffres dont le suivant est le même ou plus grand.

**Note:** les nombres avec des zéros ne sont pas inclus dans ces tables (103 est compris comme 13, bien qu'il produise les combinaisons: 130 ou 301, 310).

**Exemple** avec le nombre 37:

On peut former les quatre combinaisons suivante: {**3, 7, 37, 73**}

Curieusement ces quatre nombres sont [premiers](#).

Le nombre 137 offre lui-aussi une bonne moisson de premiers:

137, 15, {1, **3, 7, 13, 17, 31, 37, 71, 73, 137, 173, 317, 371, 713, 731**}

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#### Table des combinaisons pour n de 1 à 99

*Rappel* si vous cherchez 21, il est en 12. Etc.

1, 1, {1}

2, 1, {2}

3, 1, {3}

4, 1, {4}

5, 1, {5}

6, 1, {6}

7, 1, {7}

8, 1, {8}

9, 1, {9}

11, 2, {1, 11}

12, 4, {1, 2, 12, 21}

13, 4, {1, 3, 13, 31}

14, 4, {1, 4, 14, 41}

15, 4, {1, 5, 15, 51}

16, 4, {1, 6, 16, 61}

17, 4, {1, 7, 17, 71}	35, 4, {3, 5, 35, 53}	57, 4, {5, 7, 57, 75}
18, 4, {1, 8, 18, 81}	36, 4, {3, 6, 36, 63}	58, 4, {5, 8, 58, 85}
19, 4, {1, 9, 19, 91}	37, 4, {3, 7, 37, 73}	59, 4, {5, 9, 59, 95}
22, 2, {2, 22}	38, 4, {3, 8, 38, 83}	66, 2, {6, 66}
23, 4, {2, 3, 23, 32}	39, 4, {3, 9, 39, 93}	67, 4, {6, 7, 67, 76}
24, 4, {2, 4, 24, 42}	44, 2, {4, 44}	68, 4, {6, 8, 68, 86}
25, 4, {2, 5, 25, 52}	45, 4, {4, 5, 45, 54}	69, 4, {6, 9, 69, 96}
26, 4, {2, 6, 26, 62}	46, 4, {4, 6, 46, 64}	77, 2, {7, 77}
27, 4, {2, 7, 27, 72}	47, 4, {4, 7, 47, 74}	78, 4, {7, 8, 78, 87}
28, 4, {2, 8, 28, 82}	48, 4, {4, 8, 48, 84}	79, 4, {7, 9, 79, 97}
29, 4, {2, 9, 29, 92}	49, 4, {4, 9, 49, 94}	88, 2, {8, 88}
33, 2, {3, 33}	55, 2, {5, 55}	89, 4, {8, 9, 89, 98}
34, 4, {3, 4, 34, 43}	56, 4, {5, 6, 56, 65}	99, 2, {9, 99}

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 115, 8, {1, 5, 11, 15, 51, 115, 151, 511}  
 116, 8, {1, 6, 11, 16, 61, 116, 161, 611}  
 117, 8, {1, 7, 11, 17, 71, 117, 171, 711}  
 118, 8, {1, 8, 11, 18, 81, 118, 181, 811}  
 119, 8, {1, 9, 11, 19, 91, 119, 191, 911}  
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 124, 15, {1, 2, 4, 12, 14, 21, 24, 41, 42, 124, 142, 214, 241, 412, 421}  
 125, 15, {1, 2, 5, 12, 15, 21, 25, 51, 52, 125, 152, 215, 251, 512, 521}  
 126, 15, {1, 2, 6, 12, 16, 21, 26, 61, 62, 126, 162, 216, 261, 612, 621}  
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 128, 15, {1, 2, 8, 12, 18, 21, 28, 81, 82, 128, 182, 218, 281, 812, 821}  
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 133, 8, {1, 3, 13, 31, 33, 133, 313, 331}  
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 137, 15, {1, 3, 7, 13, 17, 31, 37, 71, 73, 137, 173, 317, 371, 713, 731}  
 138, 15, {1, 3, 8, 13, 18, 31, 38, 81, 83, 138, 183, 318, 381, 813, 831}  
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578, 15, {5, 7, 8, 57, 58, 75, 78, 85, 87, 578, 587, 758, 785, 857, 875}  
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