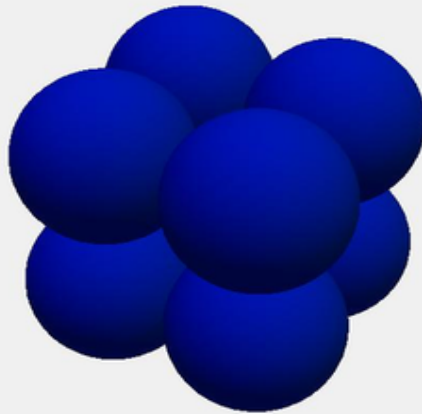


# MathCon

*The Mathematics Firm*

## Factorización

Problemas sobre factorización entera



[www.math.com.mx](http://www.math.com.mx)

José de Jesús Angel Angel  
jjaa@math.com.mx

MathCon © 2007-2012

# Contenido

<b>1. Factorización</b>	<b>2</b>
1.1. Factorizar los siguientes números enteros por inspección. . . . .	2

# Capítulo 1

## Factorización

### 1.1. Factorizar los siguientes números enteros por inspección.

1. 216	Sol: $2^2, 3^3$ .
2. 324	Sol: $2^2, 3^4$ .
3. 96	Sol: $2^5, 3$ .
4. 144	Sol: $2^4, 3^2$ .
5. 486	Sol: $2, 3^5$ .
6. 128	Sol: $2^7$ .
7. 648	Sol: $2^3, 3^4$ .
8. 972	Sol: $2^2, 3^5$ .
9. 432	Sol: $2^4, 3^3$ .
10. 1944	Sol: $2^3, 3^5$ .
11. 3888	Sol: $2^4, 3^5$ .
12. 2592	Sol: $2^5, 3^4$ .
13. 768	Sol: $2^8, 3$ .
14. 5832	Sol: $2^3, 3^6$ .
15. 1152	Sol: $2^7, 3^2$ .
16. 8748	Sol: $2^2, 3^7$ .
17. 2592	Sol: $2^5, 3^4$ .
18. 1728	Sol: $2^6, 3^3$ .
19. 5184	Sol: $2^6, 3^4$ .
20. 11664	Sol: $2^4, 3^6$ .
21. 17496	Sol: $2^3, 3^7$ .

- |           |                        |
|-----------|------------------------|
| 22. 7776  | Sol: $2^5, 3^5$ .      |
| 23. 26244 | Sol: $2^2, 3^8$ .      |
| 24. 3456  | Sol: $2^7, 3^3$ .      |
| 25. 2304  | Sol: $2^8, 3^2$ .      |
| 26. 15552 | Sol: $2^6, 3^5$ .      |
| 27. 23328 | Sol: $2^5, 3^6$ .      |
| 28. 540   | Sol: $2^2, 3^3, 5$ .   |
| 29. 360   | Sol: $2^3, 3^2, 5$ .   |
| 30. 1000  | Sol: $2^3, 5^2$ .      |
| 31. 240   | Sol: $2^4, 3, 5$ .     |
| 32. 600   | Sol: $2^3, 3, 5^2$ .   |
| 33. 1500  | Sol: $2^2, 3, 5^3$ .   |
| 34. 144   | Sol: $2^4, 3^2$ .      |
| 35. 540   | Sol: $2^2, 3^3, 5$ .   |
| 36. 900   | Sol: $2^2, 3^2, 5^2$ . |
| 37. 400   | Sol: $2^4, 5^2$ .      |
| 38. 4860  | Sol: $2^2, 3^5, 5$ .   |
| 39. 15000 | Sol: $2^3, 3, 5^4$ .   |
| 40. 5400  | Sol: $2^3, 3^3, 5^2$ . |
| 41. 2160  | Sol: $2^4, 3^3, 5$ .   |
| 42. 1944  | Sol: $2^3, 3^5$ .      |
| 43. 22500 | Sol: $2^2, 3^2, 5^4$ . |
| 44. 3600  | Sol: $2^4, 3^2, 5^2$ . |
| 45. 9000  | Sol: $2^3, 3^2, 5^3$ . |
| 46. 4860  | Sol: $2^2, 3^5, 5$ .   |
| 47. 8100  | Sol: $2^2, 3^4, 5^2$ . |
| 48. 120   | Sol: $2^3, 3$ .        |
| 49. 980   | Sol: $2^2, 5, 7^2$ .   |
| 50. 252   | Sol: $2^2, 3^2, 7$ .   |
| 51. 180   | Sol: $2^2, 3^2, 5$ .   |
| 52. 1050  | Sol: $2, 3, 5^2, 7$ .  |
| 53. 567   | Sol: $3^4, 7$ .        |
| 54. 420   | Sol: $2^2, 3, 5, 7$ .  |

55. 378	Sol: 2, 3 <sup>3</sup> , 7.
56. 1470	Sol: 2, 3, 5, 7 <sup>2</sup> .
57. 2450	Sol: 2, 5 <sup>2</sup> , 7 <sup>2</sup> .
58. 115	Sol: 23, 5.
59. 203	Sol: 29, 7.
60. 57	Sol: 19, 3.
61. 221	Sol: 17, 13.
62. 93	Sol: 31, 3.
63. 493	Sol: 29, 17.
64. 1457	Sol: 47, 31.
65. 799	Sol: 47, 17.
66. 851	Sol: 37, 23.
67. 95	Sol: 5, 19.
68. 129	Sol: 3, 43.
69. 74	Sol: 37, 2.
70. 667	Sol: 29, 23.
71. 1591	Sol: 37, 43.
72. 493	Sol: 29, 17.
73. 209	Sol: 19, 11.
74. 713	Sol: 23, 31.
75. 407	Sol: 11, 37.
76. 493	Sol: 29, 17.
77. 2209	Sol: 47, 47.
78. 403	Sol: 13, 31.
79. 1591	Sol: 37, 43.
80. 301	Sol: 43, 7.
81. 611	Sol: 13, 47.
82. 782	Sol: 23, 2, 17.
83. 105	Sol: 3, 5, 7.
84. 182	Sol: 2, 7, 13.
85. 561	Sol: 3, 11, 47.
86. 195	Sol: 3, 5, 13.
87. 255	Sol: 3, 5, 17.

- |               |                          |
|---------------|--------------------------|
| 88. 138       | Sol: 2, 3, 23.           |
| 89. 261       | Sol: 3, 3, 29.           |
| 90. 182       | Sol: 2, 7, 13.           |
| 91. 231       | Sol: 3, 7, 11.           |
| 92. 578       | Sol: 2, 17, 17.          |
| 93. 725       | Sol: 5, 5, 29.           |
| 94. 33511     | Sol: 47, 31, 23.         |
| 95. 6293      | Sol: 7, 31, 29.          |
| 96. 36075     | Sol: 5, 3, 37, 13, 5.    |
| 97. 377363    | Sol: 31, 37, 47, 7.      |
| 98. 80883     | Sol: 11, 3, 43, 19, 3.   |
| 99. 111826    | Sol: 11, 17, 13, 2, 23.  |
| 100. 52921433 | Sol: 37, 31, 37, 43, 29. |