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# Puzzle 16



## Exponents

Calculate the answer to each problem. Write each answer in the number puzzle. Remember, the exponent tells the number of times to multiply the base by itself. See #2 Across. It has been done for you.

### Across

2.  $7^5 = 7 \times 7 \times 7 \times 7 \times 7 = 16,807$

3.  $5^3 =$  \_\_\_\_\_

5.  $11^3 =$  \_\_\_\_\_

10.  $9^6 =$  \_\_\_\_\_

12.  $7^2 =$  \_\_\_\_\_

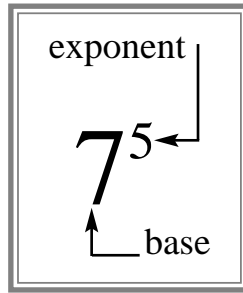
13.  $4^4 =$  \_\_\_\_\_

14.  $5^4 =$  \_\_\_\_\_

16.  $12^2 =$  \_\_\_\_\_

17.  $11^4 =$  \_\_\_\_\_

19.  $2^4 =$  \_\_\_\_\_



### Down

1.  $10^3 =$  \_\_\_\_\_

2.  $5^6 =$  \_\_\_\_\_

4.  $3^5 =$  \_\_\_\_\_

6.  $7^3 =$  \_\_\_\_\_

7.  $8^4 =$  \_\_\_\_\_

8.  $5^5 =$  \_\_\_\_\_

9.  $9^4 =$  \_\_\_\_\_

11.  $4^5 =$  \_\_\_\_\_

15.  $8^3 =$  \_\_\_\_\_

18.  $11^2 =$  \_\_\_\_\_

The puzzle grid consists of a central vertical column of 10 cells. From the second cell from the top, a horizontal row of 5 cells extends to the right, containing the digits 1, 6, 8, 0, and 7. From the third cell of this row, a vertical column of 3 cells extends upwards. From the fourth cell of this row, a vertical column of 3 cells extends downwards. From the fifth cell of this row, a vertical column of 3 cells extends downwards. From the sixth cell of this row, a vertical column of 3 cells extends downwards. From the seventh cell of this row, a vertical column of 3 cells extends downwards. From the eighth cell of this row, a vertical column of 3 cells extends downwards. From the ninth cell of this row, a vertical column of 3 cells extends downwards. From the tenth cell of this row, a vertical column of 3 cells extends downwards. From the eleventh cell of this row, a vertical column of 3 cells extends downwards. From the twelfth cell of this row, a vertical column of 3 cells extends downwards. From the thirteenth cell of this row, a vertical column of 3 cells extends downwards. From the fourteenth cell of this row, a vertical column of 3 cells extends downwards. From the fifteenth cell of this row, a vertical column of 3 cells extends downwards. From the sixteenth cell of this row, a vertical column of 3 cells extends downwards. From the seventeenth cell of this row, a vertical column of 3 cells extends downwards. From the eighteenth cell of this row, a vertical column of 3 cells extends downwards. From the nineteenth cell of this row, a vertical column of 3 cells extends downwards.

