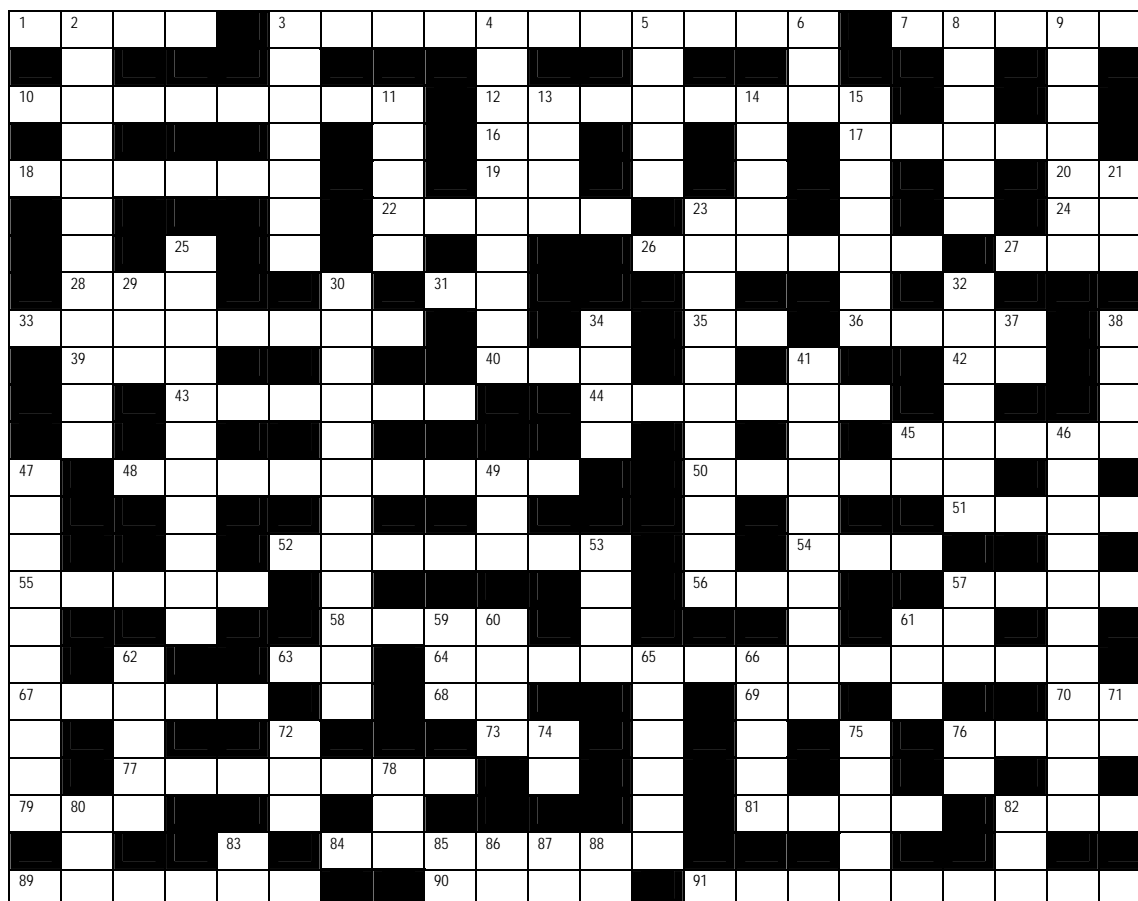


# Crossword Puzzle.



## ACROSS

1. ... the two straight lines, if produced indefinitely, \_ \_ \_ \_ \_ .
3. The name of the **Gou Gu Theorem** in the West.
7. Our knowledge of the mathematics from this area stem mainly from a few papyri such as the **Ahmes** papyrus.
10. One of the curves studied by **Apollonius**.
12. The most important book in the history of mathematics.
16.  $\xi$ .
17. The zero numeral comes from this region.
18. To the early Greeks, a product of three numbers represented a \_ \_ \_ \_ \_ .
19. Article.
20. Modus Operandi.
22. The first curvilinear shapes that were squared.
23. That man.
24. Ego, superego and \_ \_ .
26. **Epicycles** were created as a commitment to this perfect shape in astronomy.
27. Not subtract.
28. Shade of color.
31. City in the land between the rivers.
33. The inside angle of this polygon is  $108^\circ$ .
35. The most fundamental constant in nature.
36. The opposite of the power of a number.
39. Neither, \_ \_ \_ .
40. The element associated with the **Platonic** solid with eight sides.
42.  $\mu$ .
43. The artistic center of the **Greek** world.
44. The author of the most important book in the history of mathematics.
45. A synonym for proportion.
48. The **geometric mean** of the sides of a \_ \_ \_ \_ \_ is the side of the square with the same area.
50.  $\alpha, \alpha, \alpha$ .
51. What a good one of **91 Across** must eventually do.
52. The name of the inscribed polygon whose side is the radius.
54.  $\wedge$ , the conjunction.

55. His formula produces the area of a triangle from the lengths of the sides.
56. The fourth astral body in the ancient ordering.
57. The **arithmetic** or the **geometric** or the **harmonic**.
58. What  $\sqrt{-1}$  is not.
61. one-\_\_-one.
63. Thus.
64. What the side and the diagonal of a square are not.
67. The circumference of it was measured by **2 Down**.
68. For example.
69.  $2^{16} + 1$  \_\_ a prime.
70. Twice, two-fold.
73. If, to **Don Quijote**.
76. The element associated with **25 Down**.
77. A major work by **35 Across**.
79. I \_\_ \_\_, I understand.
81. 365.2425 days according to **Gregory**.
82. Every.
84. What this puzzle is about.
89. The last of the Greek geometers.
90. Half-chord.
91. Procedure named after **al-Khwarizmi**.

### DOWN

2. See **67 Across**.
3. The most influential astronomer of antiquity.
4. The scientific center of the **Greek** world.
5. The civilization that overtook the **Greek**.
6.  $2^{32} + 1$  is \_\_ \_\_ prime.
8. \_\_ \_\_ \_\_ \_\_ **Ratio**.
9. The **Egyptians** most remarkable achievement was the computation of its volume.
11. It has a chord.
13. **Breadthless** length.
14. Antonym to **always**.
15. \_\_ \_\_ \_\_ \_\_ \_\_ objects have the same shape.
21. Not even.
23. He performed **22 Across**.
25. The **Platonic** solid with fewest sides.
29. Eins.
30. The **Platonic** solid with the faces having the most number of sides.
32. It and the straightedge constituted the Euclidean tools.
34. The product of two numbers to a Greek.
37. You to **Julius**.
38. The author of **Achilles and the Tortoise**.
41. The most influential writer on number theory.
45. Sun God to **Nefertiti**.
46. The **Platonic** solid with the most number of sides.
47. The best scientific mind of antiquity.
49. Not the hypotenuse.
53. A very modern word for length.
57. **Hypatia** was killed by one.
59. Top of the deck.
60. Modern examples of prosthaphaeresis.
61.  $\tau$ .
62. One of the building blocks of all numbers.
65. The residual of a base twenty ancient system is reflected in **French** when this number is called four-twenties.
66. The smallest base in which one can divide easily by the first six numbers.
71. That is.
72. Piece of a circle.
74. What the modern symbol  $\in$  means.
75. He considered circles to be the most perfect of curves.
76. "*a long, long way to run*"
78.  $\chi$ .
80.  $\eta$ .
82. Not a science.
83. He gave us  $\pi \approx \frac{355}{113}$ .
85. Abbreviation for  $\frac{1}{2}$ .
86. "*a drink with jam and bread*"
87. Surjective or \_\_ \_\_to.
88. "*a drop of golden sun*"

**Solution to the Crossword  
on the Last Page**