

mathematical methods:

1. Brahmagupta's method for Pell's equation.
2. Multiplication by doubling (Egypt).
3. Euclid's postulates
4. Islamic completing the square
5. Chinese remainder problems.
6. convex regular polyhedra
7. Heron's formula
8. Diophantine notation
9. Levers
10. tangents to parabolas
11. crd function
12. al-Sawa'al's polynomial division
13. Euclidean algorithm

who are:

1. Zeno
2. Archimedes
3. Brahmagupta
4. Aristotle
5. Apollonius
6. Eudoxus
7. Pythagoras
8. Diophantus
9. Nichomachus
10. Euclid
11. Ptolemy
12. Hipparchus
13. Menelaus
14. Brahmagupta
15. Bhaskara
16. al-Kwarizmi
17. al-Uqlidisi
18. al-Khayyami

know for each civilization

1. number system
2. use of zero
3. use of negatives
4. use of fractions
5. estimates for pi
6. role of Pythagorean theorem
7. influences by others
8. astronomical knowledge
9. major written works
10. rough dates