

Achievements in Astronomy & Architecture in the Early Civilizations of America

- The Maya civilization designed and constructed massive stone _____ and temples, all without the aid of _____ tools.
 - Mosques, wooden
 - Pyramids, metal
 - Figures, plastic
- The Maya made huge astronomical and mathematical advancements with the concept of _____.
 - Numbers
 - Addition
 - Zero
- The use of zero allowed Mayan mathematicians to perform large and complex _____.
 - Equations
 - Solutions
 - Products
- Instead of 10 digits, they used a base number of _____.
 - 30
 - 15
 - 20
- _____ and _____ were used as shorthand for counting.
 - Bars, dots
 - Circles, squares
 - Diamonds, hearts
- A dot represented the number _____, a bar represented the number _____. A _____ was used to represent zero.
 - 5, 8, clover
 - 1, 5, seashell
 - 3, 4, circle
- The Maya used their mathematical system to make highly detailed astronomical observations, such as the movement of the _____, annual winter and summer _____, and fall and spring _____.
 - Sun, solstices, equinox
 - Moon, coordinates, equator
 - Planets, seasons, time zones
- The Maya also learned how to predict _____. They kept a close watch of the position of the _____.
 - New moons, sun
 - Solar eclipses, moon
 - Changes in tides, planets
- One of the Maya's biggest achievements was the development of the _____ day calendar.
 - 200
 - 150
 - 365
- The Mayas built towering pyramids, expansive palaces, and temples, all without the benefit of _____.
 - Currency
 - Gold
 - Modern machinery
- They Mayas built observatories as maps, aligning their structures with the _____ and planets.
 - Sun
 - Stars
 - Moon
- The Mayas charted the movements of the _____, _____, and _____. They were so precise that they predicted solar and lunar _____ centuries in advance.
 - Sun, moon, planets, eclipses
 - Stars, moon, meteorites, phases
 - Oceans, tides, time zones, days
- The Maya's astronomical knowledge also played a vital role in their _____ as they relied on the stars to guide their _____ and _____ cycles.
 - Trade, selling and buying
 - Agriculture, planting, harvesting
 - Sleep cycles, bedtimes, wake times
- The Mayas Numeral System was based on the Number _____, which is unlike any modern decimal system which is based on the Number 10.
 - 60
 - 20
 - 19
- Three Symbols of the Mayan Calendar:

Shell – _____	Dot – _____	Bar – _____
a) five	a) two	a) one
b) three	b) one	b) three
c) zero	c) ten	c) five
- The Mayan civilization was the first in the world to understand and use the concept of _____.
 - Zero
 - Numbers
 - Addition
- Their Vagecimal system allowed them to record _____.
 - Multiple quantities
 - Small amounts
 - Large numbers