In a historical argument, a historian provides evidence to support an answer to a question about the past. Evidence is specific information that is based on facts or reasons, not unsupported opinions. For each of the following questions, which statement below it would be most useful in an argument answering it?

- What caused early agricultural and pastoral societies to become mole
- a. The development of wheeled vehicles contributed to a growing division between most people and a few wealthy elites.
- b. The development of wheels was very important in human history
- 2. Why does the amount of sculpture, painting, and other forms of art increase as a society moves from hunting and gathering to agriculture?
- a. Agricultural societies can produce enough surplus food that people can devote more time to creating art.
- b. People created art long before they developed agriculture, and they continued to do so after they settled into permanent communities.

WRITE AS A HISTORIAN: IDENTIFY THE THINKING SKILL

When answering an essay question, note the type of thinking that the question is asking you to demonstrate. For example, analyze and evaluate are different thinking skills. Analyze means to examine the parts of something; you often analyze information when you want to explain why something happened. In contrast, evaluate means to identify the positive and negative aspects of something or to determine its significance. In each of the following questions, which word states the type of thinking the answer should express?

- 1. Compare the role of women in hunter-forager and agricultural societies between 10,000 B.C.E. and 600 B.C.E.
- 2. In a paragraph, describe life in a hunter-forager society.
- The Neolithic Revolution made government more important. Explain why this change happened.
- 4. Plows, axles, textiles, and iron were technological innovations in early societies. Select one of these and assess its significance.
- 5. Contrast religion before and after the Neolithic Revolution.

N

The First Civilizations

Create Babylon, whose construction you requested! Let its mud bricks be molded, and build high the shrine!

—The Epic of Creation, 1st Millennium B.C.E., a Sumerian version of how the world began.

Tour of the first civilizations emerged in river valleys. In one or more of these, as well as in other early civilizations, people developed large urban areas, extensive trade, formal legal codes, sophisticated writing systems, and other critical developments that have become standard features of civilizations ever since.

The Sumerians

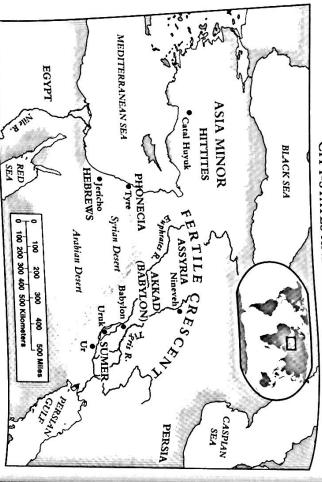
In Southwest Asia, the *Tigris* and *Euphrates* rivers flow south from modern-day Turkey through what is now Iraq to empty into the Persian Gulf. The area between these two rivers was once known as *Mesopotamia*, which comes from a Greek word meaning "between rivers." Because so many ancient civilizations arose there, the region is now called "the cradle of civilization." A larger area, the *Fertile Crescent*, overlaps with Mesopotamia but also includes an area to the west, along the Mediterranean coast.

The geography of Mesopotamia presented numerous agricultural benefits. Frequent flooding from the Tigris and Euphrates would leave deposits of silt, which made the soil very fertile. The water and fertile soil of Mesopotamia, combined with a warm climate, provided the resources the Neolithic people who lived in the region needed to begin farming.

Sometime before 5000 B.C.E., a group of nomadic pastoralists called *Sumerians* migrated into Mesopotamia, settling alongside people already living there. Over time, these new migrants created the civilization of *Sumer*. They built cities, canals to carry river water to fields, and dams to control the rivers' unpredictable flooding. The first complex governments arose to coordinate these tasks. While Sumer is not a separate country today, the civilization it created provided the core and the foundation of several other civilizations in the Middle East, and its influence is evident throughout the world today.

Sumerian Government By 3000 B.C.E., some cities in Sumer were home to between 2,000 and 10,000 people. By 2700 B.C.E., the largest city, *Uruk*, had a population of 50,000. Most city dwellers were farmers, who made daily trips to the countryside to work in the fields.

SUMERIA AND OTHER CITY-STATES AND EMPIRES



Each Sumerian city and the land it controlled formed a city-state, which typically covered several hundred square miles. The city-states were independent, each with its own government. Since the Sumerians believed that land belonged to the gods, the first rulers were the city-states' priests. They assigned fields to the farmers, distributed the harvested crops at the city's

As the Sumerian city-states grew in size and number, they began to compete with each other for land and water. Wars resulted. To defend themselves, urban governments built massive stone walls around their cities and organized armies. Over time, Sumerian military leaders became more important than priests. These military rulers, called kings, ruled over a territory known as a kingdom. Religion and politics were blended in Sumerian civilization in the sense that kings were also high priests. This practice increased social stability, since the king was perceived as being a direct link between the people and the gods.

Sumerian Religion The people of Sumer were polytheistic, worshiping many gods. They believed that the gods controlled the natural forces around them. The priests explained the gods' will to the people and directed worship at the temple. To win the gods' favor, Sumerians made offerings and prayed that the gods would cause the rivers to flood at the right times for growing crops.

Because the floods were so important—and so uncertain—in Mesopotamia, satisfying the gods was very important to Sumerians. This may explain why they devoted so much effort and wealth to constructing monumental architecture that was religious. They placed temples and altars in large stepped pyramids,

called ziggurats. They believed that the gods punished humans in this life for bad behavior, but they did not believe in reward or punishment after death. Instead, they believed that the dead simply turned to dust.

Sumerian Economy and Trade Sumerians learned to farm the land intensely. As a result, they were able to produce an agricultural surplus, which had all of the effects described in Chapter 1, particularly a division of labor. Many Sumerians engaged in work other than producing food. They made pottery, wove cloth, cast utensils in bronze, and engaged in other crafts.

The agricultural surplus also allowed Sumerians to trade extensively, not only throughout the region of Mesopotamia but interregionally with other civilizations. While some of the trade was over land, they also sailed seven-person canoes into the Mediterranean Sea and through the Persian Gulf and into the Arabian Sea. Major trade goods included gold from Egypt and tin from Persia. Through their trading networks, the Sumerians obtained goods from even farther away. They traded for beads, wood, resin, lapis lazuli, and obsidian that originated in Southeastern Africa, from the region that is the present-day country of Mozambique. From India, they obtained pearls, copper, and ivory. Many of these trade items were used by artists to create impressive and ornate sculptures and jewelry, much of which had religious significance.

Sumerian Social Structure As Sumerians became more specialized in their work, distinctions between classes became sharper. And as the society grew wealthier, the gap between the poor and the rich increased. One sign of the increase in social stratification was that a new class of nobles and wealthy landowners joined priests and kings at the top of society. The middle classes comprised merchants, farmers, and professionals such as architects. Hired workers made up the lower class. At the very bottom of society were slaves—foreign prisoners of war or Sumerian families who could not pay their debts. About 40 percent of the people living in Sumerian cities may have been slaves. Many people were needed to build the massive stone structures in cities and to create and maintain the vast irrigation systems in the countryside that formed the basis of Sumer's wealth.

Women in Sumer Upper-class Sumerian women enjoyed some freedom. They could own property and have incomes separate from those of their husbands. However, only their boys attended school; their girls were educated at home. Also, all marriages were arranged by men.

Cultural and Scientific Contributions To manage their surplus crops, manufacturing, and trade, the Sumerians needed to keep records. To accomplish this, they created the world's first writing system, called *cuneiform*, which consisted of marks carved onto wet clay tablets. (This early writing gives us the modern expression of "set in stone" because once the tablets had been hardened in ovens, the markings were unchangeable.) The development of a complex writing system required the emergence of a separate class of people who were skilled at cuneiform. Called *scribes*, these individuals were charged first with record-keeping and later with the writing of history and myths.





Cuneiform wedges (left) were the first writing system. Phoenician letters (above) became the basis for the modern alphabet used by writers

of English and many other languages

Sumerians made several advances in thought and technology. They pioneered many important inventions related to farming, including carts and metal plows, as well as sundials and a 12-month calendar with which the Sumerians attempted to predict the flooding of the Tigris and Euphrates rivers. A final noteworthy invention was the Sumerian number system, which was based on 60. They used 60 because it could be divided into whole segments by 2, 3, 4, and 5. Today, people still divide an hour into 60 minutes, a minute into 60 seconds, and a circle into 360 degrees.

It was during the time of Sumer's power that *The Epic of Gilgamesh*, perhaps the oldest written story on the earth, was produced. It was originally composed on 12 clay tablets in cuneiform script. The epic concerns the adventures of a real Sumerian king named Gilgamesh who ruled the city-state of Uruk somewhere between 2750 and 2500 B.C.E. From *The Epic of Gilgamesh*, historians know something about the people who lived in the land between the Tigris and Euphrates rivers in the 2nd and 3rd millenniums B.C.E and what they valued in a leader. (Test Prep: Write a paragraph comparing Gilgamesh with the Greek heros in Homer. See page 56.)

Sumerian Decline Mesopotamia had supplies of water and fertile land, so it attracted other groups who wanted to control the region. And because there were few natural barriers to prevent invasions, and because of the independent nature of the city-states, the Sumerian city-states fell to invaders around 2300 B.C.E. However, the culture they developed became the core and foundation of later empires in the region.

The Babylonian Empire

Sometime during the several centuries following the decline of Sumer, a new weapon appeared in Mesopotamia: the compound or composite, bow. This bow combined wood with animal bone or horn to make a stronger, and hence more deadly, bow. It was either developed in Mesopotamia or by nomadic pastoralists in central Asia. The bow gave its first users an advantage over rivals.

Around 1900 B.C.E., a Persian people from what is now Iran invaded and took control of Mesopotamia. The invaders built a new capital city called Babylon, so they became known as the *Babylonians*. They would eventually control a large territory that included diverse cultural groups, called an *empire*.

King Hammurabi The Babylonians' most powerful king was Hammurabi. He conquered all of Mesopotamia and ruled for more than 40 years, until about 1750 B.C.E. Hammurabi abolished local governments and appointed officials who were responsible only to him. Later, he reorganized the tax structure. These changes made it easier for his representatives to collect the tax and also increased the amounts collected. The taxes were used primarily to maintain irrigation canals to improve agricultural productivity.

Hammurabi is famous for creating a set of laws: the Code of Hammurabi. He had the 282 laws carved into stone monuments, one of the first instances of laws being put into writing for everyone to see. Hammurabi's laws dealt with topics such as property rights, wages, contracts, marriage, and various crimes.

The Code's main purpose was to protect people's rights. It was built on the idea of "an eye for an eye." That is, the punishment should fit the crime, often very precisely. For example: "If a builder builds a house for someone, and does not construct it properly, and the house that he built falls in and kills its owner, then that builder shall be put to death. If it kills the son of the owner, then the son of that builder shall be put to death."

Hammurabi's system of justice, though harsh, was not as violent or unpredictable as the retribution people often carried out when they felt injured. By replacing individual vengeance with a well-publicized system administered by government, Hammurabi brought greater stability and justice to society.

Babylonian Society and Culture Babylonian culture resembled that of Sumer in several ways. For example, Babylonians adopted many of the Sumerians' religious beliefs and was a patriarchal society, one dominated by men. However, under Babylonian rule, women enjoyed more rights than the women in Sumer had. Babylonian women could be merchants, traders, and even scribes. Marriages were arranged by parents. A Babylonian woman could leave her husband if he was cruel, although she could not divorce him. However, if she did leave him, she could take her property with her.

Some Babylonians were skilled astronomers. They could accurately Some Babylonians were skilled astronomers. They could accurately predict the movement of planets and eclipses of the moon. From this predict the movement of planets and eclipses of the moon. From this predict the movement of planets and eclipses of the moon. From this predict the movement, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar. In Babylonia, astronomy, the knowledge, they devised a lunar calendar.

The Phoenicians

around 3000 B.C.E. With strong sailing ships, the Phoenicians developed a The Phoenicians occupied parts of present-day Lebanon, Israel, and Jordan wide trade network across the Mediterranean Sea, even venturing into the eastern Atlantic Ocean. The Phoenicians exported cedar logs, colorful textiles, glass, and pottery, among other items. The Phoenicians were at their peak from Mediterranean. Carthage, a Phoenician colony on the coast of North Africa, 1200 to 1100 B.C.E., during which time they expanded their empire around the

became a significant outpost in the region.

to cuneiform around 1000 B.C.E. The Phoenician 22-letter alphabet was a great system of symbols (letters) that represent the sounds of speech, as an alternative who spread the alphabet across their empires. It is now used by much of the help to increased trade, and it was later modified by the Greeks and Romans, Phoenician alphabet with the Chinese writing system. See page 35.) system pioneered by the Phoenicians. (Test Prep: Create a chart comparing the Western world. The Arabic and Hebrew alphabets also evolved from the basic The Phoenicians are remembered for developing an alphabetic script, a

The Hebrews

2000 B.C.E. Today, Jews, Christians, and Muslims all trace their religious founded by Abraham who left Mesopotamia to settle there in approximately as the Old Testament. In addition, archeologists have unearthed a great deal of information about the Hebrews. According to Hebrew scriptures, Canaan was writings, the Hebrew scriptures, which Christians have traditionally referred to lived in the region of Canaan-present-day Israel, Palestine, and Lebanon. What historians know of Hebrew civilization comes partly from their sacred The Hebrews, whose descendants became known as Israelites and later as Jews,

conduct that became very influential in areas dominated by Christianity. about 1300 B.C.E., the Hebrews were led out of Egypt by Moses and eventually returned to Canaan. Moses also introduced the Ten Commandments, a code of they were later enslaved for several centuries. According to Hebrew scriptures, heritage to him. A severe drought in Canaan forced some Hebrews to migrate to Egypt where

only one deity. However, they were one of the first groups to adopt monotheism, a belief in Monotheism Like most other groups, the early Hebrews were polytheistic.

movement was the beginning of the Jewish Diaspora, the spreading of Jews throughout the Mediterranean world and the Middle East. Jews were able to Now known as Israelites, many fled or were driven out of their homes. This descendants of Abraham were enslaved for the second time in their history. kingdoms were conquered by the Assyrians and the Babylonians, and the divided into two separate kingdoms, which weakened their power. The two Division and Diaspora Over the following centuries, the Hebrews

> diversity, conquered the region in 539 B.C.E. return to Jerusalem only after the Persians, who were more tolerant of religious

they did maintain a strong sense of identity. spread throughout the world. While the Jews did not have their own country, this movement of people, Jewish ideas and culture spread and would eventually southern Europe, and elsewhere, continuing the Jewish Diaspora. Because of region, Jews again suffered discrimination. Many migrated to North Africa, However, Persian rule did not last. As less tolerant rulers controlled the

The Geography of Africa

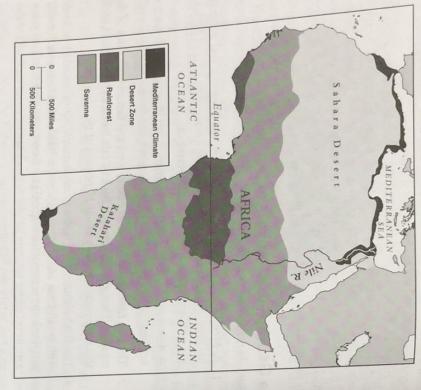
Geographers have divided Africa into four major climate zones:

- 1. A Mediterranean climate zone, with its mild seasons and temperate the southern coast of the Mediterranean Sea. weather, consists of a strip of land along the northern edge of Africa—
- A desert zone consists of the continent's two deserts-the Sahara in northern Africa and the Kalahari in southern Africa.
- 'n equator. Though many people think of rain forest as typical of Africa, The rain forest zone stretches east to west and lies on both sides of the this zone makes up only about 10 percent of the continent.
- The final climate zone is the savanna, made up of broad grasslands area that is now the Sahara. ago, the northern savanna band was much larger, covering much of the just north and south of the tropical rain forest zone. Ten thousand years with small trees and shrubs. Two major bands of savanna are located

silt, replenishing the soil. (Since the building of the Aswan Dam in 1968, the also for making baskets, sandals, and other items. Annual floods would deposit wheat, barley, and the papyrus plant, which was used for writing material and delta of the river, making the length of the Nile ideal for agriculture, especially the Mediterranean Sea. In ancient times, rich black soil covered the banks and Nile River no longer experiences annual flooding.) The Nile River begins in the interior of Africa and flows north to empty into

and barley. From people living in the grassy savanna land to the south, Egyptians people began to practice agriculture and pastoralism around 6000 B.C.E. or surplus for towns to emerge. Just as the Sumerian civilization influenced later cattle. Over the span of two thousand years, Egyptians domesticated animals, learned to grow gourds, watermelons, and sorghum and to raise donkeys and 5000 B.C.E. From people in Mesopotamia, Egyptians learned to grow wheat began mining copper to make jewelry and tools, and had enough agricultural Introduction of Agriculture and Pastoralism In the Nile River Valley,

AFRICA CLIMATE ZONES



and foundation of later ways of life in the Mediterranean world. people in Mesopotamia, so the earliest Egyptian civilization became the core

growing larger and dryer, and the savanna region was growing smaller, causing desertification, the creation of desert-like conditions. The Sahara was Beginning around 5000 B.C.E., declining rainfall across North Africa was However, Egypt was making these advances as the climate was changing

scholars think that the Egyptians may have learned this technology from Sumerians about the wheel, the plow, bronze-making, and writing trading with the Sumerians. The Egyptians may also have learned from the floodwaters and increase the amount of land they could farm. Indeed, some Like the Sumerians, the Egyptians dug irrigation canals to spread the

the Nile, traders engaged in interregional trade with Mesopotamia. locally, but traded through the region of northeast Africa. From the mouth of had to do was let the current carry them. As a result, Egyptians not only traded against the Nile's current by putting sails on their boats. To travel north, all they to use the Nile River for transportation and trade. They could move south from the Mediterranean Sea. This geographic feature allowed early Egyptians Transportation and Trade The wind blows south through the Nile Valley

> flowed through a vast desert. The dry lands to the west and east provided natural Egypt developed for more than 1,300 years before its first major invasion. barriers against attacks. While invaders attacked Mesopotamia many times Another feature of the Nile that promoted Egypt's prosperity was that it

the Nile River. The need to work together to feed this larger population caused kingdoms. One was Lower Egypt, in the north, where the Nile flows into the local chiefs to emerge. Strong leaders gradually united the towns into two Mediterranean. The other, Upper Egypt, was farther south and more upstream. located at the southern end of the Nile Delta. Egyptian history. Menes also established his capital at the city of Memphis. Around 3100 B.C.E., King Menes united the two kingdoms, a turning point in Early Governments Desertification brought more people to settle near

Kingdom. Separating this periods were shorter ones of turmoil three long periods of stability: the Old Kingdom, Middle Kingdom, and New Historians have divided much of subsequent ancient Egyptian history into

began developing a strong central government. The king or queen leading remained divided into city-states during the third century B.C.E., Egypt as theocrats, rulers holding both religious and political power. Egypt's kings into use until the New Kingdom. From Memphis, the kings and queens ruled this government is now known as a pharaoh, although the term did not come including the famous pyramids. wielded their considerable authority to undertake extensive building projects. The Old Kingdom (2660-2160 B.C.E.) Unlike Mesopotamia, which

and placed in a pyramid with jewelry and other items for use in the afterlife. bodies after death. Most of Egypt's large pyramids were built during the Old and were immortal, they supported great efforts to preserve and honor their Kingdom as tombs for rulers. Each pharaoh's body was preserved as a mummy Since Egyptians believed that the pharaohs were descended from the gods

other government officials in each of the kingdom's provinces. Some pharaohs nobles eventually developed as a result these lands and positions began to be passed from father to son. A class of rewarded their officials with land as payment for their services. Over time, At first, all land belonged to the pharaoh, who appointed the governors and

authority of the pharaohs. The pharaohs' power was further weakened by a unrest, rivalries among the provinces, and the collapse of the Old Kingdom. period of drought, which resulted in famine and starvation. This all led to civil The kingdom again split into Upper Egypt and Lower Egypt. For more than 100 years, civil wars swept Egypt as nobles competed for power and the throne. As the noble class grew stronger, some of them began to challenge the

governors and eventually gaining control over all of Egypt. (Test Prep: Write a reunited Egypt under a central government, reducing the power of the provincial II took power. He moved the capital to Thebes, farther south on the Nile, and history. See chart on page 73.) paragraph comparing Mentuhotep II's takeover of Egypt to similar takeovers in The Middle Kingdom (2040-1786 B.C.E.) In 2040 B.C.E., Mentuhotep

a great renewal in art, religion, and literature. Many temples to the gods were art created that pictured them as wise and caring protectors of the people, than had their predecessors. To encourage loyalty, they had statues and other These images, along with writings that gave the same message, were part of The pharaohs of the Middle Kingdom had a different approach to governing

country's borders. Their armies pushed east to control the Sinai Peninsula and increased the size of Egypt's farmland. In addition, they expanded their built during this period. Pharaohs used their power to construct huge irrigation projects that

south into Nubia, which was rich in gold and other resources. people called the Hyksos from modern Syria. The Hyksos used their superior technology—horse-drawn chariots and greatly improved bows and arrows—to The Middle Kingdom ended after an invasion by a pastoral nomadic

defeat the Egyptians.

a short period of time. As Egyptians learned to use the same battle technology, gained access to highly prized resources such as bronze and wood. Nubia and north into Mesopotamia. Through negotiation and conquest, Egypt Kingdom. Using the newly powerful army, pharaohs expanded southward into they were able to defeat the Hyksos, beginning the era known as the New The New Kingdom (1570-1070 B.C.E.) The Hyksos occupied Egypt for

religion was restored. Moreover, the priests became more powerful than ever. them disrupted Egypt and weakened his power. After his death, Egypt's old change would have dramatically changed the role of priests in Egyptian society. Many priests opposed worshiping just one god, and Akhenaton's struggle with religion. He called for the worship of one god, a sun god called Aten. Such a Around 1350 B.C.E., the pharaoh Akhenaton tried to change Egypt's

with the attacking Hittites, his successors lacked his power and skills. were beginning to use iron tools and weapons. Although Ramses made peace the Hittites, who had a military advantage over the Egyptians because they Egypt's empire had become a tempting target for invaders. One of these were more temples and erected more statues than any other pharaoh. However, which he successfully expanded the empire into Southwest Asia. Ramses built He remained in power for a remarkably long time—nearly 67 years—during A powerful pharaoh, Ramses the Great, took the throne around 1290 B.C.E.

independence until modern times. these dismantled the once-mighty Egyptian Empire. Egypt did not regain its Macedonians, and the Romans, among others. Combined with internal revolts, from repeated invasions from Libyans, Kushites, Assyrians, the Persians, the carrying out expensive but failed wars against neighbors, Egypt suffered After Ramses' death, Egypt began a long period of decline. Besides

own farming, farmers were required to work on irrigation and other government class, predominantly of farmers. Farmers' crops belonged to the owner of the land—the government, a temple, or a noble family. In addition to doing their temples and were paid by the government. Below this class was a large lower families, nobles, and priests at the top. Artisans worked in shops attached to Egyptian Society The social hierarchy in Egypt was complex, with royal

> of people were equal under the law, but Egypt's class system was very rigid. It construction projects. Below the farmers—at the lowest level—were the slaves, chart comparing Egyptian society with Indus Valley society. See page 30.) was difficult to advance from one class to a higher one. (Test Prep: Create a who usually hailed from lands conquered by Egypt. Except for slaves, all classes Egyptian women had more rights and freedoms than most ancient women.

court. Two women, Hatshepsut and Cleopatra, even became pharaohs. A few usually did not take part in government and had little political power. women held posts at temples. However, most women were not educated. They They could own property, make contracts, divorce, and pursue legal disputes in

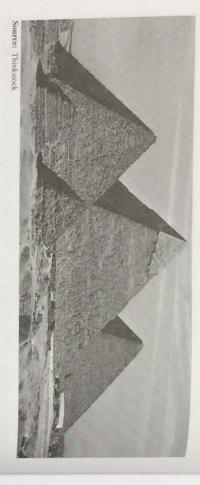
gods were represented by statues and small idols. People believed that the god the god's favor and protection. was present in these objects. They prayed and made offerings to the god to win life and death; and Isis, wife of Osiris, who was the goddess of nature. The worshiping many gods. Among these were Ra, the sun god; Osiris, the god of Religion Like the Mesopotamians, the ancient Egyptians were polytheistic,

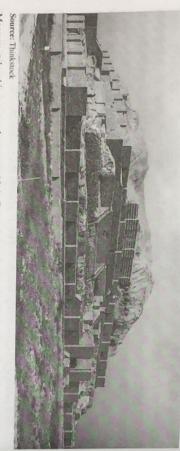
were buried in the desert, where the dry environment preserved their bodies. put in a sealed coffin. Only the rich could afford mummification. Poor people its insides and wrapping it with chemically treated cloth. The body was then removing the body's internal organs, drying the body with salts, and packing Some people were mummified and buried in tombs. Mummification involved Egyptians believed the body must be preserved for the dead to have an afterlife. to pharaohs. Later, it was extended to all people and even animals. But the The Egyptians believed in life after death. At first, this belief applied only

culture remained largely intact, even when Egypt was ruled by outsiders. In fact, invaders often adopted aspects of Egyptian culture. Middle, and New Kingdoms allowed a stable Egyptian culture to develop. This Continuous Egyptian Culture The long periods of unity under the Old,

represented ideas and sounds. Instead of writing on clay tablets, however, the Egyptians found a better material. They mashed papyrus, a type of plant that the mummified dead to tell stories of the dead. person. The Egyptians also wrote hieroglyphs on the inside walls of tombs of nobles; each version of the book was different since it told the story of the dead was a paper book that Egyptians put in the coffins of dead pharaohs and some English word "paper" comes from this plant's name. The Book of the Dead grew along the Nile River, using its fibers to create a type of paper; indeed, the was much like the Sumerians' cuneiform, with the addition of symbols that using a form of picture-writing known as hieroglyphics. This writing system Egyptian Writing By about 3000 B.C.E., people in the Nile Valley were

in distant quarries in the desert and transported them to a construction site. instruments. Egyptians cut the massive stone blocks used in their construction engineering marvels, built with great accuracy using simple tools and surveying Egyptians developed math and engineering skills to build the various pyramids. They then moved these heavy blocks up ramps to their place on the pyramid Scientific Contributions Ancient Egypt's pyramids and temples were





Monumental architecture such as pyramids in Egypt (upper) and ziggurats in Mesopotamia (lower) reflected the power of early governments to organize workers to build large structures.

days. The calendar was created to track the stars for religious purposes and to monitor the flooding of the Nile. to build the pyramids and to restore the boundaries of fields after a flooding of the Nile. They also developed a calendar based on a year that contained 365 fractions as well as whole numbers. Their knowledge of geometry helped them very much like the system we use today. They had knowledge of the concept of The ancient Egyptians developed a number system based on 10 that was

years, and about one-third of ancient Egyptians died in infancy. conditions like asthma. Nevertheless, adult life expectancy was only about 35 to prevent infection. They used plants and herbs to relieve pain and to treat amputate limbs, and stitch up wounds. They soaked cloth bandages in honey upon and benefit from. Egyptian physicians were able to set broken bones, about the human body-knowledge that many future civilizations would draw The practice of mummification gave the ancient Egyptians much knowledge

Nubia, Kush, and Axum

along the Nile River, and carried on interregional trade across the Red Sea. were as wealthy as Egypt was at its peak, each prospered through regional trade Just south of Egypt, three other ancient kingdoms developed. Though none

> more use of irrigation networks to water their fields. though, the flood plain was not as wide. Therefore, Nubian farmers had to make crops and raising the same domesticated animals as Egypt. Unlike Egypt, forces. Nubia was basically an agricultural country, growing most of the same skins, and slaves. Nubians were recruited to serve as mercenaries in Egyptian Egyptian traders went to Nubia in search of gold, ivory, incense, cattle, animal Nubia Nubia emerged in the Upper Nile Valley around 3500 B.C.E.

in writing, but they also developed their own script, which was alphabetic. gods and adopted Egyptian burial practices. However, the Nubians retained Egyptian-type pyramids and palaces. They also worshiped some of the Egyptian some of their gods as well. Likewise, the Nubians used Egyptian hieroglyphics their close proximity to the land of the pharaohs. For example, the Nubians built The Nubians were heavily influenced by Egyptian culture, in part because of

reemerge as the kingdom of Kush, around 2500 B.C.E. Nubia lasted for nearly a thousand years before falling into decline, only to

of Meröe was a particularly important trade center. exported slaves as well as ivory, gold, and cattle. The Kushites mined iron ore economically, trading with the Roman Empire, India, and Arabia. Kushites from which they made tools and weapons in furnaces fueled by timber. The city Even without control of Egypt, however, Kush became an important kingdom briefly before they themselves were overthrown by the Assyrians in 663 B.C.E. and cultural independence by about 1000 B.C.E. Kush even conquered Egypt Kush Kush remained dependent on Egypt, only establishing some political

the 340s C.E., Kush was conquered by the civilization of Axum. Kushites cut down trees in order to make the charcoal used in smelting iron. In Afterward, their power and influence declined, partly because of deforestation Kush enjoyed its greatest power from about 300 B.C.E. to 100 C.E.

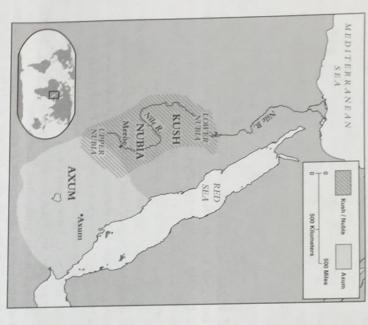
state had an agricultural economy, with farmers using plows to cultivate wheat, day Ethiopia in the first century C.E. Its capital city was also called Axum. The (such as hides, ivory, and slaves) in exchange for money or products from India. Red Sea called Adulis, where traders sold products from the African interior barley, and millet. Axumites also established a successful trading colony on the foreign trade and by requiring conquered lands to pay tribute Arabia, and the Roman Empire. Adulis and Axum as a whole grew rich by taxing Axum The civilization of Axum was founded on the plateau of present-

helping to create a more cohesive society. In 330 C.E., Christianity was decreed the official religion of Axum by then-king King Ezana. people converted to Christianity. The religion's popularity continued to increase Because of their trading connections with the Roman Empire, some Axum

Peninsula. From Arabia, Axum borrowed a script for its written language. 500s, Axum expanded its territories to include modern Yemen, on the Arabian The Axumites defeated the Kushites in Meröe in the 340s C.E. In the

Christianity stayed the dominant religion in the area, as it is in Ethiopia today, counter efforts to convert Axumites to Islam in the seventh and eighth centuries Axum began declining around 600 C.E., but it remained strong enough to

NUBIA, KUSH, AND AXUM, 3500 B.C.E. TO 600 C.E.



Indus Valley Civilizations

Harappan society's existence only in the 1920s. contemporary southern and central India. Archaeologists came to know about it seems to be loosely connected to the Dravidian languages still existing in centers in the Indus River Valley: Harappa and Mohenjo-Daro. Their written language, mainly in the form of pictographs, has not yet been deciphered, but subcontinent, known as Dravidians, established two sophisticated urban in the region. Between 2500 and 2000 B.C.E., indigenous peoples of the Indian developed near water and became the core and foundation of later civilizations Like civilizations in Mesopotamia and Egypt, the Indus River Valley civilizations

must have had sophisticated technology and urban planning. poor, had private toilets that drained into a municipal sewage system, the cities center were found to be of varying sizes. And since most residents, rich and existed in the Indus Valley because the foundations of homes in the Harappa's civilization with division of labor. Jewelers, potters, architects, and artists all resided within these cities. Archeologists can infer that a social hierarchy numerous buildings. Archaeological remains reveal evidence of an advanced sites comes from a collection of artifacts as well as the remains of city walls and Much of the archaeological evidence from Harappa and Mohenjo-Daro

> then the Indus Valley societies should be considered civilized. agricultural surplus and a resulting division of labor among a society's residents. societies in eastern India. If civilization can be defined by the existence of an Harappans traded by sea and land with Sumer and Egypt and by land with the providing ample amounts of food to these urban areas. Evidence also shows that Daro and Harappa were farmers, archeologists conclude that rural areas were Agriculture and the Environment Because so few residents of Mohenjo-

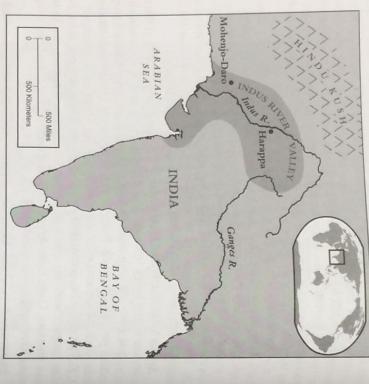
eventual disappearance of the Harappan and Mohenjo-Daro civilizations. Their often flooded. Floods could have destroyed their cities as well as the cities Mohenjo-Daro societies is the ferocious and temperamental Indus River, which soil to erode. Another possible reason for the disappearance of the Harappan and remains. Earthquakes are considered to be another possibility. people removed so many trees from their lands that this deforestation caused the Environmental degradation probably caused the gradual decline and

society are found today in South Asia. The group that arrived 500 years after its speaking peoples originally from Central Asia, traveled from Persia through the decline left a more lasting mark on South Asian culture. Aryans, Indo-European-Ganges River and its surrounding plains. drawn chariots. Over time, Aryan settlements and culture spread east along the Indian peoples were no match for Aryan warriors on horseback and in horse-B.C.E. The nomadic, pastoral Aryans brought the first horses into India. Native Hindu Kush Mountains over a period of several centuries, beginning in 1500 Aryan Migrations and Interactions Very few, if any, features of Harappan

and at times, the clans fought each other. The first Aryans continued their herding committee of clan members. Unlike Egypt, the people had no central government, its own territory and each headed by a male chief who ruled with advice from a peas, beans, and other vegetables. them settled in villages and began to farm, intermingling with the native peoples lifestyle, raising horses, cattle, goats, and sheep. Eventually, though, most of Wheat and barley were their main crops, but they also grew sugar cane, gourds, Importance of Clans Each Aryan tribe was divided into clans, each with

of silver and copper coins led to an increase in trade and in the number of craftspeople and merchants. which one thing is exchanged for another. By 500 B.C.E., though, their use gradually appeared in their villages. Early trade was by barter—a system by Although poor transportation made trade difficult, other types of goods

of the Aryans' Indo-European origins, Sanskrit shares traits with Latin, another they also had a commonly used tongue which would evolve into Hindi. Because system. While most literary and religious works were recorded in this language. but sometime between 1200 and 1000 B.C.E., the Aryans developed a writing to South Asia. At first, stories were passed orally from generation to generation, still spoken widely among many northern Indian societies in Sanskrit. Sanskrit continues to be studied by religious scholars, while Hindi is Indo-European language. For example, the word for king is rex in Latin and raja Aryan Language Aryans brought their sacred language, Sanskrit, with them



Aryan Religious Traditions The Vedas, Sanskrit for "knowledge," are a collection of Aryan religious hymns, poems, and songs. The Rig-Veda is the most famous; it sheds light on ancient Indian society, particularly the conflicts that occurred between the Dravidian and the Aryan peoples. The Rig-Veda outlined proper priestly (brahmin) behavior, which included performing several daily rituals honoring the gods. These responsibilities placed brahmins in a position of authority in Indian society. The importance of the Vedas in Indian spiritual life had waned a bit by 500 B.C.E. as Vedic knowledge began to meld with the spiritual contributions made by Dravidians.

Aryan and Dravidian Beliefs Many aspects of the Aryans' language, religious traditions, and social organization continue today in South Asia. Their interactions with indigenous peoples of India, particularly the Dravidians, also had a lasting impact on Indian society.

The late Vedic Age (800–400 B.C.E.) was marked by the Aryans' growing awareness of Dravidian beliefs. The interaction of both traditions came to fruition in the Upanishads, a collection of religious thought that illuminated several new religious concepts: brahma, dharma, karma, and moksha.

Brahma is an overarching, universal soul that connects all creatures on Earth. Each individual human being is not a separate entity; his or her individual soul is not the essence of truth or reality. An individual soul is not terribly important; one must try to escape a cycle of life and death and join

the universal soul, brahma. In order to escape the seemingly endless cycle of birth and rebirth, one must perform righteous duties and deeds, known as one's dharma. This dharma then determines one's karma, or fate, in the next life. If someone's soul carries a heavy karmic burden, then one could perhaps be reborn as a lower-class person or even in a lower life form.

Conversely, a person who performs good deeds throughout life is believed to have good karma, which in turn may help his or her soul in a future life. A soul's ultimate goal should be to attain *moksha*, or eternal peace and unity with brahma. Believers can attain moksha through intense meditation and the casting off of worldly pleasures.

The *Upanishads* is a foundational text for the set of religious beliefs that later became known as Hinduism. It is historically significant because it reflects the blending of Aryan and Dravidian religious values, and also because it reflects the social structures of Ancient India.

China's First Civilization

The fourth core and foundational river civilization developed in eastern China. China includes two major rivers, the *Huang He* (Yellow) and the *Chiang Jiang* (Yangtze). The Chiang Jiang stretches almost 4,000 miles across central China. The Huang He, while shorter at 2,400 miles, connects China's northern interior to the Yellow Sea. The river takes its name from the deposits of *loess*, a type of fertile soil that is yellow in color. For thousands of years, the flooding of the Huang He has deposited this silt across a wide area.

In addition to the advantage of the two rivers, much of eastern China experiences a reliable, moderate climate. Meanwhile, two geographical features protected China from invasion: the Gobi Desert in the west and the world's tallest mountain range, the Himalayas, in the southwest.

As early as 6500 B.C.E., Neolithic people of the Yangtze Valley were growing rice. Then around 5800 B.C.E., people began farming near the Huang He. Their main crops were soybeans and a grain called millet. By 3000 B.C.E., groups along the Huang He had taken up rice farming, too. Meanwhile, both groups had begun domesticating chickens and pigs.

According to Chinese tradition, the first silk production also began around 3000 B.C.E. People wove fine silk cloth from the threads of silkworms, which fed on the leaves of the region's mulberry trees. They also made items from copper and carvings from a precious stone called jade.

China's First Rulers Although ancient Chinese civilization faced no outside threats, villages along the Huang He were sometimes attacked by nomadic peoples who lived in the nearby hills. According to Chinese legend, a man named Yu brought order to the region around 2100 B.C.E. He organized projects to build

Placed each zone under a local leader who reported to him.

Yu passed his power to his son Qi, and with his rule what is known as the Xia Dynasty began. (A dynasty is a series of rulers who all belong to the same family.) The Xia Dynasty lasted for about 400 years. Little is known about the

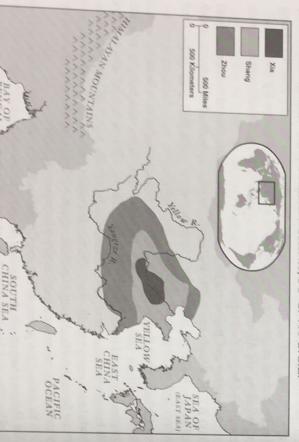
roads to encourage trade, create ditches to control flooding, and drain swamps to create farmland. He also organized the region's villages into zones for defense and

later. In recent times, though, archeologists have unearthed evidence that a Xia information about the Xia kings was recorded more than a thousand years Xia Dynasty, since the early Chinese had no writing system. The only written kingdom did indeed exist

overthrew the Xia king and took power. This event marked the beginning of the Shang Dynasty, which ruled for the next 600 years. During this time, empires of its time, such as the New Kingdom in Egypt (page 26), Mohenjo and religious power. (Test Prep: Create a chart comparing the Shang with other succession of capital cities, the Shang kings wielded tremendous economic Shang rulers conquered neighboring peoples, establishing an empire. From a Daro in India (page 30), and the Sumerians in Mesopotamia (page 17).) The Shang Dynasty Around 1750 B.C.E., a local leader named Tang

lived in the capital and in towns across the empire. The bronze technology crafts, making pottery, carving jewelry from ivory and jade, and crafting based on agriculture. Most people were peasants, but others worked at skilled and jade from Central Asia. in what is now western China. Traders also brought tin from Southeast Asia came from Southwest Asia via migrating Indo-European peoples who settled weapons, tools, wheels, and other items from bronze. Artisans and merchants Economy, Technology, and Trade The Shang economy was primarily

who were then enslaved or slaughtered as sacrifices to the gods frequent wars on enemies inside and outside the empire, capturing prisoners anyone who dared to oppose them. The Shang kings and their nobles waged weapons and armor and their horse-drawn chariots made them stronger than kept a monopoly over the production of bronze in the country. Their bronze The Shang rulers controlled the copper and tin mines in China, and they



EARLY DYNASTIES IN CHINA, TO C. 400 B.C.E.

interpreted to gain an answer to the question. Shang kings relied on the bones oracle bones. The heat would cause cracks to form, and the cracks could be or the bones of other animals. Then they would insert heated pins into the questions for the gods on oracle bones, which were turtle shells, oxen bones, known examples of writing from the Shang period. People would inscribe clouds, and wind. Efforts to communicate with the gods produced the earliest gods worshiped during the Shang Dynasty included gods of the sun, moon, They believed that several different gods controlled the forces of nature. The to tell them such things as whether to attack an enemy and if the crops would be successful. Religion Like other early river civilizations, the Shang were polytheistic.

win their favor. The Shang kings made almost daily sacrifices to the ancestors. speak to the gods for them. They made offerings to their ancestors, hoping to priesthood in ancient China. seeking the gods' help in making their rule a success. There was no organized Dynasty. The ancient Chinese believed that the spirits of their ancestors could China's long tradition of ancestor veneration also began during the Shang

objects were buried with the dead for their use in the afterlife. When a king or noble died, some of his servants and pets were killed so that they could travel with him to the next world. Historians know that ancient Chinese believed in life after death because

written script invented during the Shang Dynasty is the forerunner of the script as in Mesopotamia and Egypt, usually only scribes could read and write. The Like other early writing systems, the Chinese one was very complicated, and concept, or object, rather than representing a single sound, as letter systems do used by Chinese today. script of pictographs, or graphic symbols, each of which represented an idea, Cultural and Scientific Contributions The Shang developed a written

calendar had 12 alternating months of 29 and 30 days. Royal astronomers added extra days as needed to get to a 365-day year. Standard systems of measurement helped the Shang rule the empire. Their

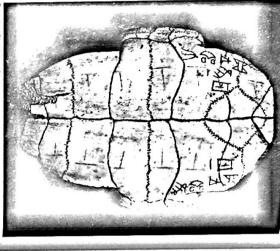
bronze castings, ivory carvings, silk garments, and white clay pottery. The first melodies that have long been lost to time. bells, stone chimes, and a simple wind instrument called an ocarina played Chinese musical instruments also appeared during the Shang Dynasty. Drums, The Shang made contributions in the arts as well. Shang artisans created

experienced a rise and fall. Over time, the Shang kings had become weaker, and the Zhou Dynasty in its place. Shang rule. The king was killed, the Shang Dynasty ended, and Wu established in 1045 B.C.E., a military man named Wu raised his own army and challenged The End of the Shang Dynasty Like all civilizations, the Shang Dynasty

peace, prosperity, and innovation. become known as China's first Golden Age, a period in a society of relative dynasty the longest in Chinese history. The first 200 years of Zhou rule has The Zhou Dynasty Zhou kings ruled for about 900 years, making their

35

abilities to centralize and hold Dynasty resulted from the kings region. They also expanded the power, bringing stability to the Dynasty much larger than what making the reach of the Zhou territory under their control, a concept called the Mandate of success was the introduction of key element in the Zhou leaders' the Shang's had been. Another by the gods. Zhou kings were a just ruler's power was bestowed Heaven, which was the idea that earthquake were often taken as natural events such as a severe heaven." However, invasions or thus referred to as "sons of signs that a ruler no longer had The success of the Zhou



Source: Shutterstock

During the Shang Dynasty, people wrote on tortoise shells

the Mandate of Heaven. The Zhou had used the concept to justify overthrowing the Shang. This became a precedent. Throughout China's history, the overthrow of rulers has been justified by the charge that a particular ruler had lost the Mandate of Heaven. (Test Prep: Write a paragraph comparing the Mandate from Heaven with the "divine right of kings." See page 284.)

Government The Zhou kings expanded their territory to such an extent that eventually they could not control it directly. Instead, the kingdom divided into many regions, each under the control of relatives or loyal friends who owed allegiance to the king. These regions functioned much like city-states. The local rulers governed as they wished, paying taxes to the king and providing soldiers for his army. From time to time, the regional leaders had to visit the king's court to proclaim their loyalty. The Zhou kings also made alliances with kings who ruled territory along their borders. These alliances protected the Zhou kingdom by helping to shield it from invasion by nomadic peoples from the north and west. The network of regional rulers, with relationships based on mutual defense agreements, created the basics of feudalism, which would reappear in many cultures later in history.

The Zhou governmental system broke down over time as regional authorities began to assert themselves. Some stopped sending the collected taxes to the king, keeping the money for their own use. Some stopped sending soldiers to serve under the king and instead formed their own armies.

Developments in metals also affected the central-regional power balance. Bronze weapons continued to be important, but the Chinese began using iron weapons during the Zhou Dynasty. Regional rulers grabbed centers that produced iron and bronze weapons, which were sometimes then used against the Zhou rulers and each other.

Trade and Agriculture China experienced great changes during the long Zhou rule. Internal trade expanded and there was some foreign trade. The first Chinese money came into use in the form of copper coins, with different ones minted in different regions.

The development of iron technology around the sixth century B.C.E. (the Iron Age) changed Chinese agriculture. Using iron tools, Chinese peasants built dikes, reservoirs, and irrigation canals to better control their water supply. Iron plows drawn by oxen allowed more land to be farmed and more food produced than ever before. This resulted in a steady population growth.

Most Chinese were peasant farmers who did not own the land they lived on. They lived in small villages and farmed the village fields together. They also had to devote a number of days of labor each year to work on roads, canals, and other local projects. (Test Prep: Create a chart comparing China's work requirement with the Incan mit'a system in the fifteenth century C.E., see page 261; and the French corvée system in the nineteenth century C.E., see page 417.)

Urbanization The trade among the regions led to the growth of towns and some cities. These urban areas needed artisans and metal production workers, although this class of people remained small. Merchants set up shops in towns and cities, selling goods from around China. Those cities that were seats of national or regional power attracted administrators, soldiers, scribes, and others.

Zhou Achievements Another reason why the Zhou Dynasty is considered a "golden age" is the large number of technological achievements attributed to it. The Zhou military benefited from the invention of the crossbow and the iron sword, and armies also began using mounted cavalry in this period. Meanwhile, Zhou farmers developed plows and improved irrigation systems in order to better exploit the waters of the Huang He and Yangtze rivers. Last but not least, roads were improved, which bolstered trade and brought increased contact with outsiders.

The Decline of the Zhou Dynasty By the 800s B.C.E., the Zhou kings had begun to lose control. Uprisings by local leaders combined with invasions from the west combined to weaken the central government. By the 400s B.C.E., the Zhou kings had little power outside their own city-state. The other states of the Zhou kingdom fought among themselves for control.

The First American Civilizations

In response to the varied climates and geographic regions in the Americas, people evolved into distinctive cultures as they moved from place to place. By 3000 B.C.E., some of the indigenous peoples, possibly first in Mexico, By 3000 B.C.E. some of the grown and harvested, not simply gathered from discovered that food could be grown and harvested, not simply gathered from wild plants. One of the first important plants to be grown by the indigenous wild plants. One of the first important plants to the Western Hemisphere, was Americans was maize (corn). This plant, native to the Western Hemisphere, was domesticated from wild types into several different varieties. Other important native crops were beans, potatoes, peppers, pumpkins, cotton, and tobacco.

The Chavin About the same time human settlements developed in Mesoamerica (Central America and what is now Mexico), settlements began near the Andes Mountains. Along the coast of what is now Peru, the Chavin civilization existed from around 1000 to 200 B.C.E. and centered at Chavin de Huántar, a ceremonial center north of today's Lima. Chavin de Huántar was home to an elaborate temple made of white granite and black limestone. Since these materials are not native to the region, they had to be obtained by trade, Drainage ditches were built under the temple to prevent flooding during rainy seasons. Shamans interpreted the temple's many sculptures and carvings.

Most of the Chavin people lived in the valleys, growing cotton, maize, potatoes, and quinoa (a food grain). Llamas provided meat, often eaten in a dried form known as jerky; wool, woven into clothes; and transport. Like earlier river valley civilizations in Afro-Eurasia, they developed irrigation systems. Because of their agricultural surpluses, the Chavin population increased, and the Chavin developed three urban centers, each with more than 10,000 people.

The Chavin developed impressive techniques in gold, silver, and copper metallurgy. They learned how to solder pieces together by melting metal. The Chavin are also remembered for the artistry of their pottery and cotton textiles, including making fishnets out of cotton thread.

Although religion united the Chavin people, their political structure was weak. Once the religious authority went into decline, there was little to hold the Chavin together, and their civilization dissolved into various regional groups.

The Olmec Mesoamerica became the site of several advanced civilizations. The foundation, or core, of all of these was the *Olmec*. Their language, beliefs, art, and athletics influenced the later civilizations, such as the Maya and the Aztec. The Olmec flourished in east and central Mexico from around 1200 to 400 B.C.E. Like other early civilizations, the Olmec were primarily agricultural, growing corm, beans, squash, and avocados in the warm, humid climate.

And like many early civilizations, the Olmec developed near water. Several small rivers crossed their land, so fresh water was plentiful and transportation was easy. They traded with regions as far as 250 miles away, obtaining jade and obsidian, out of which they made small jewelry, sculptures, and religious symbols portraying jaguars, snakes, feathered serpents, and half-human, half-animal figures. But the Olmec are most famous for carving enormous basalt monuments of human heads. About 17 of these have been found, with the largest about 10 feet tall and weighing thousands of pounds. Thousands of slaves were used to drag and float the heavy basalt blocks from sites 50 miles away.

The Olmec also built large earthen pyramids under which they buried jewelry, sculptures, mirrors, and mosaics. They built arenas for playing a kind of ball game that may have had religious significance.

The Olmec developed a calendar, a numbering system that included a zero (rare among early number systems), and the first writing system in the Americas. The system used *glyphs*, pictures and symbols of real objects. While the Olmec's language, use of feathered serpents, and ritual ball games provided the core and foundation of later cultures in Mesoamerica, later writing systems in the region do not seem to be based on the one of the Olmec.

The Pacific Peoples

The first people arrived in *Oceania*, the vast region in the Pacific Ocean that includes New Guinea, Australia, and more than a thousand other islands, about 60,000 years ago. They were hunter-foragers. Because of an Ice Age, sea levels were lower, and distances between islands were less. Thus these migrants would have needed only rafts or small boats to go from island to island.

The Austronesian Speakers The Austronesian-speaking people probably originated in southern China and later moved to Taiwan and the Philippines. Around 5000 to 2500 B.C.E., they began migrating to New Guinea also. They introduced agriculture (farming and herding) to the people of New Guinea. The Austronesians assimilated with the existing population. However, agriculture did not spread to Australia's aboriginals, who remained hunter-foragers.

During the next 1,000 years, the Austronesian people migrated by boat across a distance of over 10,000 miles. To the east, they went from one Pacific Island to another. By then, they had developed double-hull canoes that could go vast distances, reaching the islands of *Polynesia*, including Samoa, Hawaii, Easter Island, and New Zealand. Another group of Austronesians migrated west all the way to the African island of Madagascar. Wherever they went, they took along pigs, chickens, yams, and taro, so they could maintain their agricultural way of life. They supplemented this food by hunting and fishing.

Easter Island The settlers on Easter Island divided into clans, with a chief for each clan and one chief over all clans. They constructed large stone statues that represented ancestor-gods. For centuries, the Easter Islanders traded with other islands across vast distances. They cultivated sweet potatoes, which they probably first obtained from the coast of South America. From Easter Island, sweet potatoes spread to other Pacific islands, including New Zealand.

Gradually, the population of Easter Island grew until the island became overpopulated, lacking enough resources to support the people. Deforestation, coupled with wars between factions, caused the population size to plummet sometime before Europeans first visited the island in 1722 C.E.

HISTORICAL PERSPECTIVES: WHY DO CIVILIZATIONS RISE AND FALL?

Why do some cultures become innovative and prosperous and then lose these traits? Historians have offered various explanations.

Rise and Decline German Oswald Spengler (1880–1936) was among the first Europeans to search for global patterns in the fate of civilizations. During his life, European culture dominated the world but was showing signs of weakening. In Decline of the West (1917), he theorized that civilizations go through a cycle akin to the four seasons: rise of agriculture (spring), growth of towns (summer), development rise of agriculture (spring), growth of towns (summn), and materialism, of large cities and centralized governments (autumn), and materialism, of large cities and cintilism, the rejection of moral or ethical principles imperialism, and nihilism, the rejection of moral or ethical principles

39

Links Across Culture Most scholars rejected Spengler's cyclical view. French historian Fernand Braudel (1902-1985), writing as radios. ships, and planes were connecting people across the globe, saw the path of civilization as building a web of human relationships through trade and communication. In contrast, British historian Christopher Dawson (1889-1970) argued that religion, not material things, builds relationships and civilization. More recently, British-born historian Felipe Fernández-Armesto viewed various civilizations as responses by people to the challenges in their immediate environments.

KEY TERMS BY THEME

ENVIRONMENT

Tioris and Euphrates Mesopotamia Fertile Crescent

Carthage

Sahara Kalahari

Nille River

desertification

Indus River Valley

environmental

degradation

deforestation

Huang He

Chiang Jiang

loess

Mesoamerica

maize

Oceania and Polynesia

ECONOMICS

division of labor

barter

CULTURE: RELIGION

polytheistic

ziggurats

astronomy, astrology

Hebrews, Israelites,

Jews

Abraham

Moses

Ten Commandments

monotheism

Jewish Diaspora

theocrats

Aten

mummification

Aryans

Harwin

Vedas and Vedic Age

brahmin

brahma

dharma

karma

moksha

ancestor veneration

Golden Age

CULTURE: LITERATURE

scribes

The Epic of Gilgamesh

cuneiform

alphabetic script

hieroglyphics

papyrus

Book of the Dead

Indo-European

Sanskrit

Rig-Veda

Upanishads

pictographs, glyphs

Austronesian speakers

SOCIAL STRUCTURE

patriarchal

clans

feudalism

STATE-BUILDING: KINGDOMS

Sumer and Sumerians

Uruk

city-states

king and kingdom

Babylonians

empire

Phoenicians

Old, Middle, and New

Kingdoms

Hyksos

Hittites

Kush

Axum

Dravidians

Harappa

Mohenjo-Daro

Chavin civilization

Olmec

Easter Island

aboriginals

STATE-BUILDING:

LEADERS

Hammurabi

King Menes

pharaoh

Akhenaton

Ramses the Great

Xia Dynasty

Shang Dynasty

Mandate of Heaven

Zhou Dynasty