Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Time Unit Guided Notes**

You may access the Time Unit presentation on my website.

**I. Time Zones:**

1) What is the circumference of Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) How many times zones are there on Earth? \_\_\_\_\_\_\_\_

3) How many miles are between each time zone? \_\_\_\_\_\_\_\_\_\_\_\_\_ (use the circumference of the Earth and divide by 24)

4) Which meridian is located at **0 degrees longitude**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5) Which meridian is located at **180 degrees longitude**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \* This meridian marks the divide where the date changes from one day to the next, and is shown as an uneven black

 vertical line to avoid dividing kingdoms and countries in the Pacific Ocean into different time zones and dates.

**II. Methods of telling time – A brief history and overview of various measurements of time.**

6) What do you call the measurement of time marked by how long a king or queen ruled? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

   a) Why would this system of measuring time be unreliable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7) Who was the first person to come up with the system of latitude and longitude? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

  a) What system did he come up with that represented the 4 years between Olympic games? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

   b) Why would this not be the best way to measure time? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8) Who was the 6th Century monk who invented the term A.D.? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

   a) What does A.D. stand for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Latin translation: “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_”

   b) From the Latin translation, this means that A.D. is based on what event? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

   c) For those who don’t want to measure time in a religious sense, what’s another way to write A.D.? \_\_\_\_\_\_\_\_\_\_\_\_

* + - What do these initials stand for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\*Please note:** Like negative numbers on a number line, any date from B.C. **must** be labeled B.C. (A.D., like positive numbers, does not need to be labeled).

9) What does B.C. stand for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

   a) What’s the non-religious way to write B.C.? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* + - What do these initials stand for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 10) What does **circa** mean? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

   a) When is circa used? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 b) What are the two abbreviations for circa? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

   c) When would circa more likely be used – for B.C. or A.D.? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11) How long is a **decade**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Note:** Century is abbreviated with a capital C.

12) How long is a **century**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\*Please note:** Centuries are measured in both in B.C. and A.D., with the 1st C. being 1-100 B.C./A.D.;

2nd C.= 101-200 B.C./A.D.; 3RD C.= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; and 4th C. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\*Since the 1st C. was 1-100, you add one (+1) to the 100-year period referenced to figure out the century.

  **For example**: **6**00s = **7**th C.; **9**00s = **10**th C.; **17**00s = **18**th C.; **19**00s = \_\_\_\_\_\_\_\_; **20**00s = \_\_\_\_\_\_\_\_; **21**00s = \_\_\_\_\_\_\_

13) What do you call a long period in history marked by distinct features, characteristics, and/or events? \_\_\_\_\_\_\_\_\_\_\_\_

 a) List two examples: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14) What time period is considered **ancient**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15) What time period is considered **modern**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1**

**Using the timeline, answer the following questions. You may use the space at the bottom of this page for any questions that require math.**



1.What is the title of the timeline?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. In what year was the Black-and-White TV invented?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 a) What is your *prediction* of when the

    color TV was invented? \_\_\_\_\_\_\_\_\_\_\_

3. Which invention on the timeline was invented the earliest in history? In what year? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Which invention on the timeline was invented most recently? In what year? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. How many years ago was the Personal Computer (PC) invented? \_\_\_\_\_\_\_\_\_\_\_

6. How many years did it take for the Videotape to be replaced by the Digital Video Disc (DVD)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Satellite TV made it possible to broadcast channels nationally and internationally from satellites orbiting Earth. How many years ago was Satellite TV invented? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Which of these inventions or dates surprises you the most –OR– which one(s) have you never heard of? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2

**Timeline Practice – Part 1**

**Please note:** When dates are on the **SAME** side of the timeline, you **SUBTRACT** the smaller year from the larger one to figure out how many years separate the two dates. When dates are on the **OPPOSITE** side of the timeline, you **ADD** the two years together.

    **Practice:** How many years separate the dates below? First, put a + or – sign in the box and then do the equation.

1980 A.D.       1200 B.C. 44 B.C. 476 A.D.

1945 A.D. 700 B.C.          33 A.D.          27 B.C.

**\*Timelines are like number lines, with B.C. being like negative numbers, and A.D. like positive numbers – each side’s numbers/years get bigger as they move away from zero.**

 **On the timeline below, please complete the following:**

1) Label both sides of the timeline on the lines provided: B.C./B.C.E. & A.D./C.E.

2) Place the following dates and events in the correct order on the timeline.

* 3100 B.C. – First Egyptian writing
* 1200 B.C. – First Chinese writing
* 1000 B.C. – Phoenician alphabet invented
* A.D. 1440 – Printing press invented
* A.D. 1819 – Braille writing invented
* A.D. 1867 – Typewriter invented

  0

 How many **decades** separate these dates?  **\*Hint:** First add or subtract, and then divide by 10.

1. A.D. 600 and A.D. 1000 \_\_\_\_\_\_\_\_ decades
2. A.D. 1920 and A.D. 2000 \_\_\_\_\_\_\_\_ decades
3. 1480 B.C. and 1550 B.C. \_\_\_\_\_\_\_\_ decades
4. 100 B.C.E. and 100 C.E. \_\_\_\_\_\_\_\_ decades

 How many **centuries** separate these dates?   **\*Hint:** First add or subtract, and then divide by 100.

1. 1700 B.C.E. and 1700 C.E. \_\_\_\_\_\_\_\_ centuries
2. 5,000 B.C.E. and 2000 C.E. \_\_\_\_\_\_\_\_ centuries
3. A.D. 1100 and A.D. 1800 \_\_\_\_\_\_\_\_ centuries
4. 1500 B.C. and 500 B.C. \_\_\_\_\_\_\_\_ centuries

3

**Directions: Use the timeline to answer the questions below. Note: SAME=SUBTRACT, OPPOSITE=ADD.**

**300 B.C**.

Board games invented in Greece and Rome

**c. 2500 B.C**.

Wrestling becomes a developed sport

**A.D. 1351**

Tennis became open-air game in England

**A.D. 500**

Chess invented in

Persia

**0**

**776 B.C.**

First recorded Olympic Games

**264 B.C**.

Gladiators publicly battle in Rome

**c. 3000 B.C**.

Dice & board games invented in Ur

**A.D. 1120**

Invention of playing cards by Chinese

**c. 1500 B.C**.

Fencing developed in Egypt

1.

**2. How many years between the invention**

 **of board games in Ur and board games in**

 **Greece and Rome?**

 **Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_ years**

**Show your work:**

**Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_ years**

**1. How many years does the timeline cover?**

 **Answer: \_\_\_\_\_\_\_\_\_\_\_ years**

**Show your work:**

**4. Which appeared earlier in history, fencing in Egypt or chess in Persia? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**How many years earlier? \_\_\_\_\_\_\_\_\_\_\_\_\_ years**

**Show your work:**

**Answer: \_\_\_\_\_\_\_\_\_\_\_\_ years earlier**

**3. How many years between the first Olympic Games and wrestling becoming a developed sport?**

 **Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years**

**Show your work:**

**Answer: \_\_\_\_\_\_\_\_ years**

**5. How many years has it been since gladiators first started battling publicly in Rome?**

**Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years Show your work:**

**Answer: \_\_\_\_\_\_\_\_ years**

4

**Time Story Problems**

**Directions: Read and answer each of the following story problems, and then place the dates and events from each story problem on the timeline below. \*Hint: There will be a total of 7 events and their dates on the timeline.**

**4. The first democratic constitution was written in Athens in 509 B.C. How many years has it been since the founding of the first democratic constitution?**

**It has been \_\_\_\_\_\_\_\_\_\_ years.**

**Show your work:**

**Answer: \_\_\_\_\_\_\_\_ years**

**1. Man began using money in Sumer circa 800 B.C. The Romans minted coins in 296 B.C. How many years were there between the Sumerians using money and the Romans minting coins?**

**Answer: \_\_\_\_\_\_\_\_ years between**

**Show your work:**

**2. The ancient Chinese teacher, Confucius was born in 551 B.C. and died in 479 B.C. How old was he when he died?**

**Answer: \_\_\_\_\_\_\_\_ years old**

**Show your work:**

**Answer\_\_\_\_\_\_\_\_ years old**

**3. Charlemagne was king of Europe from A.D. 768 until his death in A.D. 814. How many years did he rule?**

**Answer: He ruled for \_\_\_\_\_\_\_\_\_\_ years.**

**Show your work:**

**Answer: \_\_\_\_\_\_\_\_ years**

**Using the information from the word problems above, place the years from the word problems in chronological order in the lines provided above the timeline, and the 7 events that match in the boxes below the timeline. (Example: (Event) First Democratic Constitution written; (Year) 509 B.C.)**

 **B.C./B.C.E. A.D./C.E.**

**Year 🡪 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_**

 **0**

**Event 🡪**

5