CHAPTER 1: Supplemental Questions

	a. How old is a person who has lived 22,630 days in years? (365 days = 1 year)
	b. How old is a 13-year-old in days?
2.	Motion of the earth and moon give the three easiest ways to measure time. Using these two bodies, how could the following be measured?
	a. 1 day
	o. 1 month
	c. 1 year
3.	What is a leap year, and how often does it occur?
4.	How many days did each of the following calendars have in a year?
	a. Babylonian
	b. Egyptian
	c. Julian
	d. Gregorian

CHAPTER 2: Supplemental Questions

1.	In ancient times, which was more important – knowing the correct time (hour and minute) or an accurate calendar? Why?		
2.	How many heartbeats have occurred in the life of a 20-year-old?		
	Given: average heartbeat is 70 beats/min; 60 min/hr, 24 hr/day, 365 days/year		
3.	If a person works 8 hours/day, 5 days/week, 52 weeks/year, how many hours does the person work		
	per year?		
4.	Why is it so important that railroads all operate on the same time?		

CHAPTER 3: Supplemental Questions

nile or a nautical mile?	How many feet are in each?	
10-carat gold. What d	oes this mean?	
action (reduce):	 5. Convert the following weights to poun a. 12 hundredweights b. 3 hundredweights c. 6 stones d. 15 stones 	ds:
tons =	long tons	
kers (stone markers) u	sed during the Roman Empire to mark distanc	es
nition of a mile? Who	changed it, and why?	
	action (reduce): ons and long tons: tons = tons = tons = ding to the British defi	a. 12 hundredweights b. 3 hundredweights c. 6 stones d. 15 stones ons and long tons: tons = long tons

6

CHAPTER 1-3: Review

MATCHING:		
1. Egyptians	A. the time for the moon to make 1 revolution around the earth	
2. Christian Huygens	B. seasons are caused by the	
3. Galileo	C. brightest star in the night sky	
4. fathom	D. a calendar based upon the phases of the moonE. responsible for today's calendar	
5. tilt of the earth's axis	F. invented the hour	
6. knots	G. thought a sermon should not last longer than 30 min	
	H. a device for keeping timeI. a pendulum exactly 39.14 inches long takes to	
7. avoirdupois	swing from one side to another	
8. cesium	J. built the first clock that measured hours, minutes, and seconds	
9. 29.5 days	K. ante meridian and post meridian L. most accurate clock in the world	
10. 2,240 lbs.	M. discovered that the period of a pendulum was determined by	
11. Queen Victoria	its length	
12. 1 pound	N. prime meridian of the world, the line of zero longitude	
13. lunar	O. a system of weights P. 1st standard unit of measure for weight	
14. Royal Observatory at	Q. 1 long ton	
Greenwich, England	R. 6 feet	
15. Sirius	S. ships and aircraft measure speed in T. the weight of 1 pint of water	
16. troy ounce	5 1	
17. 1 second		
18. AM and PM		
19. Pope Gregory XIII		
20. hourglass		
Ü		
SHORT ANSWER:		
1. Convert the following to tons and long	tons:	
a. 22,500 lbs. = to	ns = long tons	
b. 850 lbs. = to	ns = long tons	
2. Convert the following weights to pour	ds: 3. Write the following as a fraction (reduce):	
a. 13 hundredweights	a. 10 carats	
b. 7.5 hundredweights	b. 22 carats	
c. 12 stones	c. 14 carats	
d. 6.5 stones	d. 1 carat	

4.	How many heart beats have occurred in the life of a 13-year-old?
	Given: average heart beat 70 beats/min; 60 min/hr, 24 hr/day, 365 days/year
5.	In ancient times, which was more important – knowing the correct time (hour and minute) or an
	accurate calendar? Why?
<i>c</i>	Have many days did each of the following calendars have a year?
6.	How many days did each of the following calendars have a year?
	a. Babylonian
	b. Egyptian
	c. Julian
	d. Gregorian
7.	a. How old is a person who has lived 16,060 days?
	b. How old is a person who has lived 3,650 days?

CHAPTER 1-3 TEST

Name:	
MATCHING: (2 pts. each)	75 pts. total
1. 1 second	A 05-4
2. Egyptians	A. 6 feet B. ships and aircraft measure speed in
	C. the weight of 1 pint of water
3. Sirius	D. 1 long ton
4. 1 pound	E. 1st standard unit of measure for weight
5. Pope Gregory XIII	F. a system of weights
6. Royal Observatory at	G. prime meridian of the world, the line of zero longitude
•	H. discovered that the period of a pendulum was determined by its length
Greenwich, England	I. most accurate clock in the world
7. hourglass	J. ante meridian and post meridian
8. tilt of the earth's axis	K. built the first clock that measured hours, minutes, and seconds
9. fathom	L. a pendulum exactly 39.14 inches long takes to
10. Galileo	swing from one side to another
	M. a device for keeping time N. thought a sermon should not last longer than 30 min
11. troy ounce	O. invented the hour
12. 29.5 days	P. responsible for today's calendar
13. knots	Q. a calendar based upon the phases of the moon
14. cesium	R. brightest star in the night sky
	S. seasons are caused by the
15. 2,240 lbs.	T. the time for the moon to make 1 revolution around the earth
16. AM and PM	
17. Queen Victoria	
18. lunar	
19. Christian Huygens	
20. avoirdupois	
SHORT ANSWER: (5 pts. each) 1. In ancient times, which was more importance accurate calendar? Why?	ant – knowing the correct time (hour and minute) or an

2.	Convert the following to ton	s and long tons:		
	a. 32,500 lbs. =	tons =	long tons	
	b. 1,900 lbs. =	tons =	long tons	
3.	Write the following as a frac	tion (reduce):	4. Convert the following we	ights to pounds:
	a. 2 carats		a. 2 hundredweights	
	b. 6 carats		b. 9.8 hundredweights	
	c. 23 carats		c. 75 stones	
	d. 12 carats		d. 5 stones	
5.	Given that average heartbeat a. How many heartbeats ha		there are 365 days/year, answer the of a 21-year-old?	ne following questions:
	b. How many heartbeats ha	ve occurred in the li	fe of an 88-year-old?	
6.	a. How old is a person who	has lived 32,120 da	ys?	
	b. How old is a person who	has lived 1,825 day	s?	
7.	How many days did each of a. Babylonian b. Egyptian c. Julian d. Gregorian	the following calen	dars have a year?	