

# **Facts to Know**

# Time

А.м. = morning - 12:00 А.м. (midnight) to 11:59 А.М. Р.М. = afternoon - 12:00 Р.М. (noon) to 11:59 Р.М. 60 seconds = 1 minute 60 minutes = 1 hour 24 hours = 1 day

To compute elapsed time within the morning or within the afternoon, subtract the smaller number from the larger number. Remember to regroup (borrow) with 60 minutes.

## Sample

Because you cannot subtract 0 minutes from 38 minutes, subtract 1 hour from the 9:00 P.M. and convert it to 60 minutes. So when you calculate how much time elapsed between 9:00 P.M. and 7:38 p.m., the final answer is 1 hour 22 minutes.

8:60
<b>9:00</b> р.м.
<u>- 7:38 р.м.</u>
1:22 (1 hr 22 min)

To add elapsed time, add the two measurements of time together.

## Sample

When you add the two measurements of time together, you have an answer of 218 days 49 hrs 60 min, but you know that you convert some of the minutes to hours and some hours into days. Using the chart at the top of the page, you know that 24 hours = 1 day so 49 hours = 2 days 1 hour. Similarly, you know that 60 minutes = 1 hour so after you made all the conversions, the final answer is 220 days and 2 hours have elapsed.

# 206 days 2 hrs 5 min + <u>12 days 47 hrs 55 min</u> 218 days 49 hrs 60 min = 220 days 2 hrs

## Calendar Facts

7 days = 1 week	28-Day Month	31-Day Months
52 weeks = 1 year	February (29 days in leap year)	January
10 years = 1 decade		March
10 decades = 1 century	30-Day Months	May
10 centuries = 1 millennium	September	July
	April	August
	June	October
	November	December

- Time from the approximate date of the birth of Christ until the present moves progressively from 1 to 2000 +. It is called A.D. (anno domini—in the year of our Lord).
- Time before the birth of Christ counts back from 1 to the earliest recorded history, about 5,000 years. It is called B.C. (before Christ) or B.C.E. ("before the common era").
- To compute the passage of years within B.C. or within A.D., subtract the lower number from the higher number.
- To compute the passage of years from B.C. to A.D., add the B.C. date to the A.D. date.

8 Practice

# •••••• Using a Calendar

# **February**

S	Μ	Т	W	Т	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29				

S	Μ	Т	W	Т	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

March

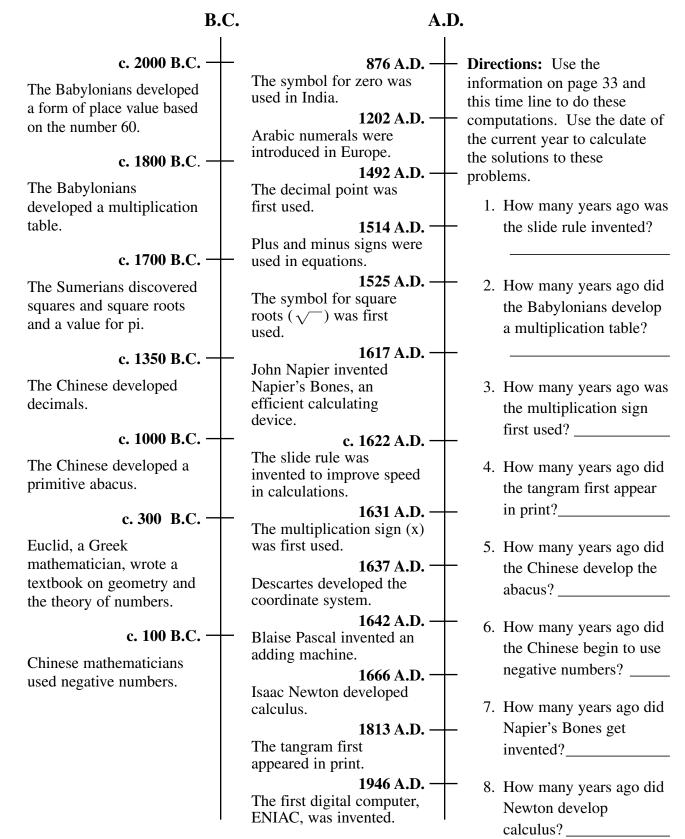
**Directions:** Study the two calendars above which are for consecutive months. Use the information on page 33 to help you answer the following questions.

1.	Which two months of the year are shown above?
2.	How do you know which months are shown?
3.	What is the date exactly 2 weeks after February 5th?
4.	What is the date exactly 6 weeks after February 22nd?
5.	What is the date exactly 5 weeks after Lincoln's Birthday (February 12th)?
6.	How many Fridays are in March?
7.	How many days were in the month before the first calendar?
8.	How many days are left in the year after the second calendar?
9.	What date is the 61st day of the year on this calendar?
10.	What date is the 360th day of this year?
11.	Easter was the fourth Sunday of April on the calendar year shown above.
	What was the date?
12.	What day of the week is May 1?

35



This is a time line of important math inventions and discoveries.



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2

4

6.

# 1.

Page 32

### Page 34

- 1. 3 hr 35 min 2. 1 hr 40 min 3. 6 hr 25 min 4. 6 hr 55 min 5. 2 hr 35 min 6. 8 hr 6 min 7. 7 hr 56 min 8. 2 hr 16 min 9. 190 days 13 hr 32 min 10. 91 days 3 hr 39 min 11. 34 wk 3 days 14 hr 40 min
- 12. 15 wk 6 days 5 hr 6 min
- 13. 26 days 12 hr 34 min
- 14. 13 days 19 hr 25 min

### Page 35

- 1. Feb./Mar.
- 2. Ending in 29, the first month must be February.
- 3. Feb. 19th
- 4. Apr. 4th
- 5. Mar. 18th
- 6. 5
- 7. 31 days 8. 275 days
- 9. Mar. 1
- 10. December 26th
- 11. April 23rd
- 12. Monday

Page 36		Pa
e	of year 2000)	
1. 378		
2. 3,8		
3. 369	9 yr.	
4. 187	7 yr.	
5. 3,0	00 yr.	
6. 2,1		
7. 38.		
8. 334		
Page 38	-	
1 age 30	° F	
2. 32°		
3. 98°		Pa
4. 20°		10
5. 50°		
	6° F; .4° F	
7. 52°	° F	
8. 32°		
9. 180		
10. 113		
11. 4.4		
12. 72	° F	
13. 29.	4° F	
14. 112		n
Page 39		Pa
1. 20°	° C	
2. 33°		
2. 99 3. 98°	° C	
4. 50°		
5. 10°		
6. 20°		
7. 122		
	comfortably hot	
8. 0°	•	
9. 22°	° C	
10. 40°	°C	Pa
11. 50°	° C	
12. 899	° C	
13. C.	short sleeves	4
14. E.	swim suit	4 cm
	ice skates	Y
	light jacket	
17 A	hoovy parka	

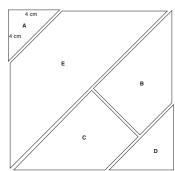
17. A. heavy parka

# age 40 1. 4° C 2. 20° C 3. 38° C 4. 27° C 5. 0° C 6. 100° C 7. 77° F 8. 50° F 9. 99° F (98.6° F) 10. 167° F 11. 86° F 12. 140° F age 41 1. 9 m.p.h. 2. 45 miles 3. 50 m.p.h. 4. 43.75 m.p.h.

# 5. 11.2 m.p.h. 6. 168 miles 7. 270 miles 8. 578.5 m.p.h. 9. 107.8 m.p.h. 10. 135 m.p.h.

- age 42
  - 1. 10 hr. 2. 3 hr. 3. 2.5 hr. 4. 7 m.p.h. 5. 7.5 hr. 6. 52.5 m.p.h. 7. 787.5 hr. 8. 117.5 hr. 9. 13.5 hr. 10. 15 hr.

## age 43



Area of square =  $144 \text{ cm}^2$ Area of parts (A + B + C + D + $E) = 144 \text{ cm}^2$ Possible steps to finding the areas of each part: To find the area of section E (64 cm<sup>2</sup>), subtract the area of A (8 cm<sup>2</sup>) from the area of one-half the square  $(72 \text{ cm}^2)$ . Section B and section C are congruent. Sections B, C, and D make up one-half the square. To find the area of B (30), subtract the area of D (12 cm<sup>2</sup>) from the areas of B + C + D (72) cm<sup>2</sup>), and then divide that difference by 2. Section areas in square centimeters: A = 8, B = 30, C = 30, D = 12, E = 64The sum of the parts (8 + 30 + 30 + 12 + 64) =the whole (144).

• • Answer Key

## Pages 44 and 45

Answers will vary.

## Page 46

- 1. 944 mi.<sup>2</sup>
- 2. 387,823 mi.<sup>2</sup>
- 3. 654,879 mi.<sup>2</sup>
- 4. Illinois
- 5. Montana
- 6.-7. Answers will vary.