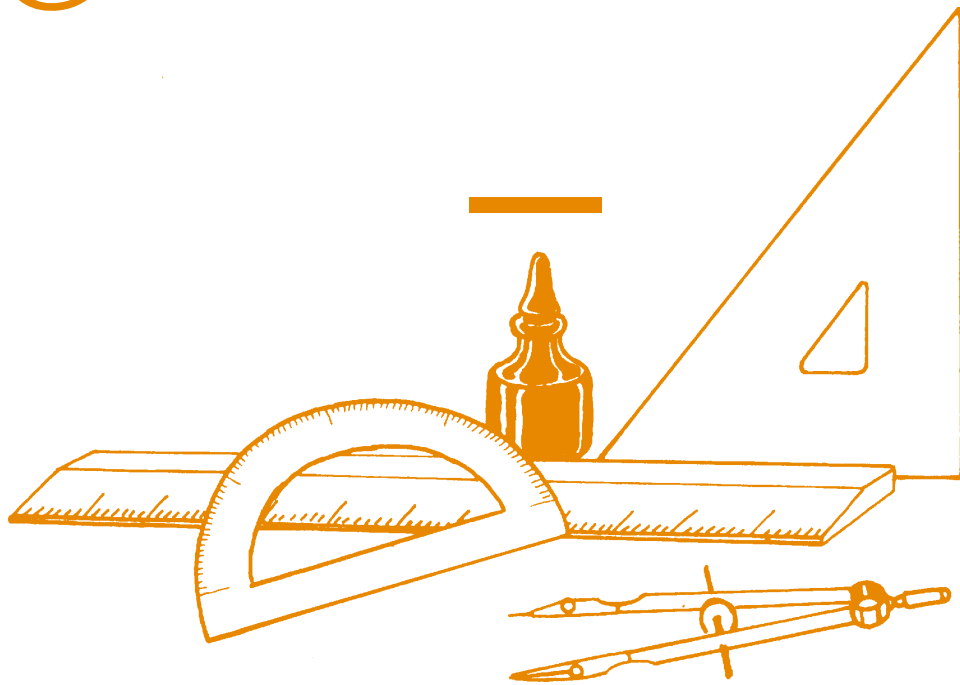


Designing
Your Own School Program

6

Subtraction II



“Pardon my transgression,
and take away mine iniquity.”

Job 7:21

A “True Education” Mathematics Series

“Take away the dross from the silver,
and there shall come forth a vessel
for the finer.”

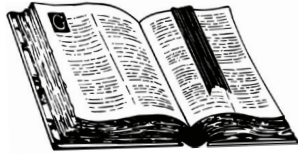
Proverbs 25:4

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Teacher Section





INSTRUCTIONS

For the Teacher

Step 1

Study the Bible Lesson and begin to memorize the Memory Verses. Familiarize yourself with the Character Quality. The student can answer the Bible Review Questions. See page 7. Use the Steps in Bible Study.

Bible Lesson

“We Have Seen His Star” –
Matthew 2

Memory Verses

Numbers 24:17; Jeremiah 29:11-14;
Micah 5:2; Isaiah 49:6; Matthew
2:23

Character Quality

Integrity – complete honesty and sincerity; wholeness; entireness; unbroken state; moral soundness or purity; incorruptibleness; uprightness; honesty

Antonyms – duplicity; deceit; dissimulation; guile; dishonesty; deceitfulness; mendacity; perversity

Character Quality Verse

Proverbs 11:3 – “*The integrity of the upright shall guide them: but the perverseness of transgressors shall destroy them.*”

Step 2

Understand:

A. How to do the Spelling Cards so the student can begin to build his own spiritual dictionary.

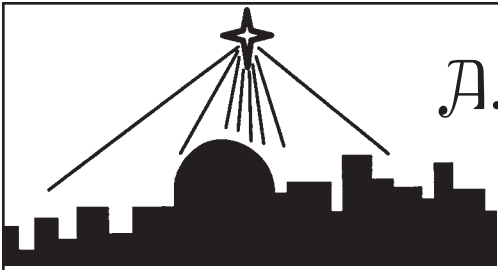
B. How to Mark Your Bible.

C. Evaluate Your Student’s Character in relation to the character quality of **integrity**.

D. Familiarize Yourself With Subtraction. Notice the Projects.

E. Review the Scripture References for “Subtraction II.”

F. Notice the Answer Key.



A. Spelling Cards

Spelling Lists



Subtraction Words

Place I - II - III

borrowing
 closed door
 double
 east
 government
 Herod
 inquiry
 light of the world
 multiple
 open
 noble men
 prove
 shut
 value
 (1-12 in Hebrew)

Place II - III

announcement
 ante meridien
 appreciation
 brilliant witness
 esteem
 estimate
 evil surmising
 faithful witness
 horizontal
 like units
 mysterious
 post meridien
 reception
 reflection
 time
 understanding
 valve
 variable
 vertical

(review 1-6)

7 – zahyin

8 – chet

9 – tet

10 – yod

11 – yo hd aleph

12 – yo hd bet

Bible Words

comfort
 demanded
 departed
 destroy
 dream
 Egypt
 flee
 frankincense
 gold
 governor
integrity
 joy
 Judea
 lamentation
 mock
 myrrh
 Nazarene
 Rachel
 search
 star
 treasure
 troubled
 weeping
 wise men
 worshiped
 worth

Choose Spelling words from these lists.

See the booklet *Spelling from the Scriptures* for instructions about how to make the Spelling Cards.

Placement of Student
Place I = Grades 2-3-4
Place II = Grades 4-5-6
Place III = Grades 6-7-8

B. How to Mark the Bible

1. Copy the list of Bible texts in the back of the Bible on an empty page as a guide.
2. Go to the first text in the Bible and copy the next text beside it. Go to the next one and repeat the process until they are all chain referenced.
3. Have the student present the study to family and/or friends.
4. In each student lesson there is one or more sections that have a Bible marking study on the subject studied. (See the Student's Section, page 210.)

C. Evaluate Your Student's Character

This section is for the purpose of helping the teacher know how to encourage the students in **integrity**. See page 8.



D. Familiarize Yourself With Subtraction – Notice the Projects Projects

1. Practice word problems in your daily life that use subtraction. (Examples: while shopping—Mother may say, “I need to subtract 6 cans of olives from the shelf. How many are left on the shelf?” In the workshop—Father may say, “When I cut 12 inches (30 cm.) from a 5 foot (1.5 m.) board, how much is left?”) Do not use paper and pencil, but work the problems in the mind.
2. During nature walks this week, find examples of subtraction in nature. (Example: Trees subtract their old leaves from themselves in the fall. Why? When do they add them again?) You could take specimens of your examples. Write your examples in *Our Nature Study Book* and make parallels to the lesson.
3. Find Bible verses that relate to subtraction. The Bible does not use the word subtraction, so look for another word with similar meaning. (Example: Psalm 34:14) Find Bible examples for subtrahend, minuend, difference, and prove.

4. Have the student help you withdrawing (subtract) funds from the bank. Explain the process to him.

5. Go to a sale where prices are reduced or discounted (subtraction) for an item needed for a person in the home or the home.



E. Review the Scripture References for Subtraction

Teacher, read through this section before working on the lesson with the student.

See page 210 in the student section.

F. Notice the Answer Key

The Answer Key for the student book is found on page 9.

Step 3

Read the Lesson Aim.

Lesson Aim

The lesson's objectives are to continue to teach subtraction to the child, and to teach him the character quality of **integrity**. He will learn how important it is to subtract himself (being like the subtrahend) from evil influences (minuend), as the wise men did from Herod, and the end result (difference) will be apparent.

The magi reached the land of Israel expecting to hear joyful news of the Messiah's birth. To their amazement they found that no one seemed to have knowledge of the newborn King. The arrival of the magi brought notice to the Messiah's birth. Herod requested to see them. He said, *"Go and search diligently for the young child; and when ye have found him, bring me word again"* (Matthew 2:8). The magi then journeyed on their way to Bethlehem.

"The wise men had not penetrated Herod's design toward Jesus." (Children cannot always discern in others a lack of **integrity**. They need wise parents to guide them, as the

wise men needed the angels to guide and instruct them.)

“When the object of their journey was accomplished, they prepared to return to Jerusalem, intending to acquaint him with their success. But in a dream they received a divine message to hold no further communication with him [Herod]. Avoiding Jerusalem, they set out for their own country by another route” (*The Desire of Ages* 64).

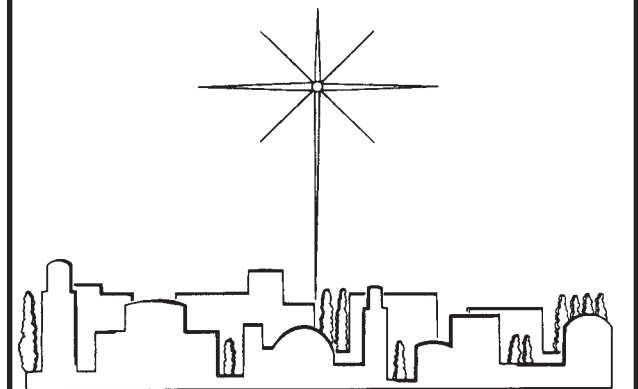
God wanted the wise men to be subtracted (subtrahend) from the evil Herod (minuend). He was not a man of **integrity**.

The wise men were men of **integrity**; that is why they were going to go back to tell Herod about finding the baby King as they said they would until God instructed them not to go back to Jerusalem.

God also subtracted Joseph and Mary, and baby Jesus (subtrahend), from Bethlehem (minuend) to protect Jesus from the wicked Herod.

It is always best to be honest and pure and subtract ourselves from sin. God would have parents choose their children’s friends. Parents can choose honest friends for their children. The difference can be **integrity** in their children.

Notes



Step 4

**Prepare to begin
the Subtraction II Lesson.**

To Begin the Math Lesson

Make a large wall chart like this
example:

$$\begin{array}{r} 24 \text{ minuend} \\ - 12 \text{ subtrahend} \\ \hline 12 \text{ difference} \end{array}$$

Remember:

Subtraction means “to take away.”

The minus sign (–) reminds us
of man, and how God came
to be a perfect man on this earth.

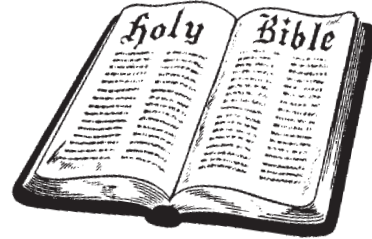
“But made himself of no reputation,
and took upon him the form
of a servant, and was made
in the likeness of men.”

Philippians 2:7

Step 5

**Begin the Subtraction Lesson.
Cover only what can be under-
stood by your student. Make
the lesson a family project by
all being involved in part or all
of the lesson. These lessons are
designed for the whole family.**

Steps in Bible Study



1. Prayer.
2. Read the verses/meditate/memorize.
3. Look up key words in *Strong's Concordance* and find their meanings in the Hebrew or Greek dictionary in the back of that book.
4. Cross-reference (marginal reference) with other Bible texts. An excellent study tool is *The Treasury of Scripture Knowledge*.
5. Use Bible custom books for more information on the times.
6. Write a summary of what you have learned from those verses.
7. Mark key thoughts in the margin of your Bible.
8. Share your study with others to reinforce the lessons you have learned.

Review Questions

1. Where was Jesus born, and who was king at this time? (Matthew 2:1)
2. Who came to see Jesus? From what direction? (Matthew 2:1)
3. For whom did they ask? What had they seen? (Matthew 2:2)
4. For what reason had the wise men come to see Jesus? (Matthew 2:2)
5. Who was troubled by the question of these men? (Matthew 2:3)
6. Whom did he gather together? (Matthew 2:4)
7. What did he demand of them? (Matthew 2:4)
8. Where did they say Jesus was to be born? (Matthew 2:5-6)
9. How did they know? Quote the text to show where they got their information. (Micah 5:2)
10. What did Herod inquire of the wise men? (Matthew 2:7)
11. To what place did he send them? (Matthew 2:8)
12. What did he tell them to do? (Matthew 2:8)
13. How did they find Jesus? (Matthew 2:9)
14. How did they respond when they saw the star again? (Matthew 2:10)
15. Whom did they worship? (Matthew 2:11)

16. Name the gifts that they presented. (Matthew 2:11)
17. How were the plans of Herod defeated? (Matthew 2:12-15)
18. When did Joseph start for Egypt? (Matthew 2:13-14)
19. How long did he remain in Egypt? (Matthew 2:15, 20)
20. How was Herod's death made known to Joseph? (Matthew 2:19)
21. Where did Joseph and his family dwell after they left Egypt? (Matthew 2:23)
22. Why was he afraid to go into Judea? (Matthew 2:21-22)
23. How was the prophecy, "*He shall be called a Nazarene,*" fulfilled? (Matthew 2:23)

Thought Questions

24. How many wise men were there? (It is not stated in the Scriptures.)
25. What does the Bible say in regard to the type of building Jesus was in at the time of the visit of the wise men? (Greek "house"—*Strong's Concordance* number 3614 = residence, an abode, a family [especially a domestic home])
26. What was the star that guided the wise men to the place of Jesus' birth? (It is not stated in Scripture, but some say it was the angels that appeared to the shepherds on the night of Jesus' birth.)
27. What Bible reference proves that it was a part of God's plan for Jesus' parents to take Him to Egypt? (Hosea 11:1; Jeremiah 31:15; Matthew 2:16-18)

Evaluating Your Child's Character

Check the appropriate box for your student's level of development, or your own, as the case may be.

Maturing Nicely (MN), Needs Improvement (NI), Poorly Developed (PD), Absent (A)

Integrity

1. Does the child keep his word, even when it hurts to do so?

MN NI PD A

2. Are the child's heroes people of integrity?

Yes No

3. Is the child able to stand alone on the side of right even when it means unpopular treatment?

MN NI PD A

4. Is the child completely honest and sincere in speech and actions?

MN NI PD A

5. Does the child make decisions based on right principles?

MN NI PD A

6. When any work is assigned to the child, does he go forward as steadily and industriously when he is not supervised as when he is?

Yes No



Answer Key

Page 3

Teacher, check.

Page 10

Teacher, check.

Page 13

(1) Their integrity

Page 15

(1) 0, 1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12, 13

Page 16

(2) $17 + 24 = 41$, $7 + 1 = 8$, $8 - 7 = 1$,
 $7 + 7 = 14$, $19 + 26 = 45$,
 $7 + 6 = 13$, $9 - 7 = 2$, $7 + 8 = 15$,
 $16 - 7 = 9$, $7 + 5 = 12$,
 $19 - 7 = 12$, $13 - 7 = 6$,
 $15 - 7 = 8$, $7 + 2 = 9$, $14 - 7 = 7$,
 $18 + 7 = 25$, $10 - 7 = 3$, 1
 $12 - 7 = 5$, $18 - 7 = 11$, $7 + 3 = 10$,
 $7 + 9 = 16$, $17 - 7 = 10$.

Page 17

(3) Starting with $17 - 7$ and
moving clockwise.
10, 3, 6, 1, 8, 5, 9, 2, 4, 7, 2, 8,
4, 3, 12, 7, 1, 5, 9, 6, 11

Page 18

(4) $8 - 6 = 2$ $2 + 6 = 8$
 $14 - 6 = 8$ $8 + 6 = 14$ / $12 - 6 = 6$ $6 + 6 = 12$
 $15 - 6 = 9$ $9 + 6 = 15$ / $7 - 6 = 1$ $1 + 6 = 7$
 $11 - 6 = 5$ $5 + 6 = 11$ / $10 - 6 = 4$ $4 + 6 = 10$
 $9 - 6 = 3$ $3 + 6 = 9$ / $13 - 6 = 7$ $7 + 6 = 13$
 $18 - 6 = 12$ $12 + 6 = 18$ / $16 - 6 = 10$ $10 + 6 = 16$
 $17 - 6 = 11$ $11 + 6 = 17$ / $17 - 7 = 10$ $10 + 7 = 17$

Page 19

$12 - 7 = 5$ $5 + 7 = 12$ / $16 - 7 = 9$ $9 + 7 = 16$
 $8 - 7 = 1$ $1 + 7 = 8$ / $9 - 7 = 2$ $2 + 7 = 9$
 $13 - 7 = 6$ $6 + 7 = 13$ / $19 - 7 = 12$ $12 + 7 = 19$
 $10 - 7 = 3$ $3 + 7 = 10$ / $11 - 7 = 4$ $4 + 7 = 11$
 $17 - 7 = 10$ $10 + 7 = 17$ / $15 - 7 = 8$ $8 + 7 = 15$
 $14 - 7 = 7$ $7 + 7 = 14$ / $18 - 7 = 11$ $11 + 7 = 18$

Answer Key

Page 19 continued

- (5) 0, 1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12, 13
0, 1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12, 13

Page 20

- (6) Z. 1, 4, 6, 2, 5, 3, 7
E. 10, 18, 84, 34, 93, 23
R. 14, 28, 40, 23, 29, 16

Page 21

- O. 141, 361, 143, 451, 153, 215
S. 275, 734, 621, 202,
1301, 1240

Page 23

- (1) V. 181, 767, 148, 36, 169, 188
E. 473, 89, 92, 119, 312, 789
R. 131, 855, 392, 187, 295, 176

Page 24

- T. 209
I. 115
C. 233
A. 206
L. 328
(2) H. 91
381
E. 117

Page 24 continued

- A. 234
236

Page 25

- (3) V. 508, 48, 857,
566, 247, 260
E. 370, 211, 181,
252, 145, 365
(4) N. 196
193
A. 955
188
B. 188
341
O. 292
193
V. 63
475
E. 297
371

Page 26

- (5) B. 991, 807, 2472,
2103, 1233
E. 1173, 3859, 4318,
5192, 2182
L. 2729, 2889, 1997,
2565, 8583
O. 2242, 4794, 338,
2756, 2084
W. 5788, 1655, 2079,
3616, 243

Answer Key

Page 30

- (1) W. 250, 614
494, 108
- (2) I. 29, 181
239, 271
- (3) S. 16, 147
259, 739
- (4) E. 19, 45, 54, 72
68, 6, 9, 19
- M. 29, 11, 25, 16
234, 115, 220, 51

Page 31

- E. 274, 195, 361, 185
645, 287, 379, 846
- N. 232, 118, 53, 485
167, 261, 184, 397

Teacher, check using dictionary and *Strong's Concordance*.

Page 33

- | | |
|--|---|
| <p>(1) 14 animals 7 oxen
 <u>– 7 oxen</u>
 7 rams</p> | <p> + 7 rams
 14 animals</p> |
| <p>(2) 8 words
 <u>– 7 words</u>
 1 word</p> | <p> 1 word
 <u>+ 7 words</u>
 8 words</p> |

Page 36

- | | |
|--|---|
| <p>(3) 14 verses
 <u>– 5 verses</u>
 9 verses</p> | <p> 5 verses
 <u>+ 9 verses</u>
 14 verses</p> |
| <p>(4) 9 verses
 <u>– 4 verses</u>
 5 verses</p> | <p> 4 verses
 <u>+ 5 verses</u>
 9 verses</p> |

Teacher, check.

Page 37

- (1) 400 miles – 133 miles = 267 miles
640 kilometers – 212.8 kilometers =
427.2 kilometers
- (2) 400 miles – 150 miles = 250 miles
640 kilometers – 240 kilometers =
400 kilometers
- (3) 400 miles – 395 miles = 5 miles
640 kilometers – 632 kilometers =
8 kilometers

Page 38

- (1) 865,000 mi. – 2,160 mi. = 862,840 mi.
1,392,000 k. – 3,476 k. = 1,388,524 k.
- (2) (SUN) 865,000 mi. – 24,901 mi. =
840,099 mi.
1,392,000 km. – 40,075 k. =
1,351,925 km.
(MOON) 24,901 mi. – 2,160 mi. =
22,741 mi.
40,075 km. – 3476 k. = 36,599 km.

Answer Key

Page 38 continued

Mercury = 861,900 mi. / Venus = 857,300 mi.

Mars = 860,800 mi. / Jupiter = 782,300 mi. (6)

Saturn = 789,900 mi. / Uranus = 835,800 mi.

Neptune = 837,300 mi. / Pluto = 861,500 mi. **Page 53**

no

(D) How many, 9

(E) deducted

7, 7, 4, 4, 2, 2, 9, 9

Teacher, check.

Page 45

1. Tycho Brahe, 2. supernova, 3. gas cloud,
4. supernova remnant, 5. xray telescope,
6. distant company, 7. shining angels,
and 8. Bethlehem

Page 54

(7) 1, 11, 7, 2, 3, 0, 2, 9

5, 0, 1, 4, 6, 7, 6, 10

8, 3, 8, 5, 4, 11, 10, 12

9, 12

Page 49

(1) 0, 1, 2, 3, 4, 5
6, 7, 8, 9, 10, 11

(2) 3, 5, 1, 0, 8, 5
2, 7, 9, 6, 1, 2
8, 3, 5, 0, 9, 4
6, 7, 12, 11, 10, 13

Page 55

(8) 5, 7, 8, 6, 5, 1, 9, 8, 8
9, 6, 5, 5, 8, 9, 6, 7, 2
2, 3, 9, 7, 5, 2, 3, 5, 4
1, 4, 3, 5, 6, 1, 4, 1, 6
5, 3, 7, 7, 3, 1, 7, 4, 9
8, 3, 2, 4, 1, 6, 3, 9, 9

Page 51

(3) 4, 0, 9, 11, 3, 6, 1
10, 2, 4, 11, 0, 8, 12
6, 3, 11, 5, 3, 6, 1
8, 0, 7, 4, 7, 2, 8
1, 6, 3, 5, 9, 0, 10
12, 11, 7, 5, 1, 10, 8

Page 56

2, 3, 1, 4, 2, 2, 2, 6, 1
7, 10, 10, 11, 12, 10, 9, 11, 8
11, 2, 11, 6, 11, 5, 10, 4, 12
4, 11, 7, 8, 4, 8, 12, 10, 10
11, 12, 11, 12, 12, 12, 10, 12, 10
9, 5 Teacher, check.

Page 52

(4) 2, 2, 2
7, 7, 7
1, 1, 1

Page 58

(1) Only the answers to the problems are listed here. The student should work out the problems horizontally and vertically on paper as shown in the example.

(5) (A) less
(B) Subtraction, take away
(C) prove, difference

Answer Key

Page 58 continued

- T. 4, 2, 5, 2, 3, 6
W. 10, 11, 11, 11, 14, 12
O. 5, 8, 13
- W. 9, 5, 4
A. 2, 4, 1, 3, 8, 11
Y. 13, 5, 9, 12, 7, 10
S. 46, 98, 90, 61, 78, 181

Page 59

(2) Only the answers to the problems are listed here. The student should work out the problems horizontally and vertically on paper as shown in the example.

- I. 11, 21, 32, 53, 63, 42
N. 253, 204, 144,
213, 522, 424
C. 144, 222, 222,
224, 351, 321
R. 732, 102, 300,
336, 312, 321
E. 23, 13, 42
A. 22, 21, 62
S. 43, 13, 53
E. 45, 30, 32

Page 61

- (1) A. 10980, 20919, 21185,
15671, 17990
N. 12768, 17471, 23721,
31920, 36675
G. 60839, 70699, 11033,
5431, 16206
E. 40922, 17600, 18024,
15788, 70163
L. 30311, 18109, 68651,
24155, 35058
- (2) 219
502
502
- (3) 2138
1189
146

Page 62

- (4) S. 28851, 17709, 17351,
11729, 13644
T. 25212, 20168, 36787,
55811, 23728
A. 31902, 9998, 80743,
11456, 4856
R. 52244, 1419, 11274,
87816, 35669

Page 63

- (1) D. 223, 12, 202
I. 330, 163, 431
F. 121, 220, 102

Answer Key

Page 64

- (2) F. 29, 19, 109
E. 108, 92, 291
R. 78, 88, 114
E. 9, 7, 39

Page 65

- (3) N. 579, 123, 59, 52
48, 169, 90, 88
C. 378, 9, 752, 157
18, 137, 14, 7
E. 80, 234, 153, 76
198, 190, 299, 61

Page 67

(1) Only the answers are listed below. The student should work out and check each problem on paper as shown in the example.

- E. 347, 362, 406
S. 2359, 2374, 1393
T. 4984, 3275, 1316
I. 67,262, 42,241, 26,020
M. 120, 800, 294,250,
796,126
A. 729,106, 342,869,
589,858
T. 5,295,497, 13,109,793

Page 68

- E. 71,995,159, 49,994,754
32,019,259, 28,935,967

Page 69

- (1) 24 courses, 8 courses
16 courses
16 courses, 8 courses
24 courses

Page 70

- (2) 16 courses, 8 courses
8 courses
8 courses, 8 courses
16 courses
(3) 24 courses, 21 courses
3 courses
3 courses, 21 courses
24 courses

Page 71

cooked, cleaned
taught the people

Page 72

- (1) $930 \text{ years} - 912 \text{ years} = 18 \text{ years}$
(2) $969 \text{ years} - 365 \text{ years} = 604 \text{ years}$
(3) $600 \text{ years} - 350 \text{ years} = 250 \text{ years}$

Teacher, check.

Answer Key

Page 82

Jealous – 1. demanding complete devotion
2. feeling a spiteful envy toward one who is or may be more successful than oneself

Jealousy – a jealous disposition, attitude, or feeling
2. zealous vigilance
3. vigilant

Page 84

- (1) 1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12
- (2) 5, 8, 1, 4, 3, 7
10, 6, 11, 9, 2, 5
12, 7, 1, 4, 9, 8
6, 3, 2, 10, 12, 11

Page 85

(3)

$\begin{array}{r} 13 \\ - 4 \\ \hline 9 \end{array}$	$\begin{array}{r} 15 \\ - 6 \\ \hline 9 \end{array}$
$\begin{array}{r} 13 \\ - 9 \\ \hline 4 \end{array}$	$\begin{array}{r} 15 \\ - 9 \\ \hline 6 \end{array}$

Herod became king by lack of **integrity**.

$\begin{array}{r} 12 \\ - 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 10 \\ - 1 \\ \hline 9 \end{array}$
$\begin{array}{r} 12 \\ - 9 \\ \hline 3 \end{array}$	$\begin{array}{r} 10 \\ - 9 \\ \hline 1 \end{array}$

Page 86

$\begin{array}{r} 14 \\ - 5 \\ \hline 9 \end{array}$
$\begin{array}{r} 14 \\ - 9 \\ \hline 5 \end{array}$

$\begin{array}{r} 16 \\ - 7 \\ \hline 9 \end{array}$
$\begin{array}{r} 16 \\ - 9 \\ \hline 7 \end{array}$

$\begin{array}{r} 11 \\ - 2 \\ \hline 9 \end{array}$
$\begin{array}{r} 11 \\ - 9 \\ \hline 2 \end{array}$

$\begin{array}{r} 17 \\ - 8 \\ \hline 9 \end{array}$
$\begin{array}{r} 17 \\ - 9 \\ \hline 8 \end{array}$

Page 87

- (4) 0, 1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12
0, 1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12

duplicity; deceit;
dissimulation; guile;
dishonesty; deceitfulness;
mendacity; perversity

- (5) 7, 15, 5, 13, 3, 12
1, 10, 2, 10, 1, 9
4, 12, 8, 16, 8, 17
4, 13, 6, 15, 9, 17

Answer Key

Insert for this page.

Answer Key

Page 96

- (1) E. 83, 207, 268, 39, 263, 265
M. 320, 290, 195,
185, 164, 87
P. 454, 243, 99,
173, 132, 652
T. 485, 69, 361, 68, 74, 67
I. 336, 188, 271,
240, 87, 198
E. 92, 273, 180, 459, 86, 145
D. 58, 72, 69, 168, 75, 267

Page 99

- (1) L. 2465, 2070, 36
3824, 1167, 555
812, 6018, 83
E. 258, 8255, 1037
87, 381, 199
1513, 1366, 217
V. 8760, 7489, 5586
6873, 6849, 5890
4659, 3894, 4567
E. 2580, 2729, 2882
2093, 2134, 233
1946, 77, 2054
L. 776, 1687, 1766
7174, 272, 2944
36, 2366, 1535

Page 100

- (2) 5875
32
132
458
830
224

These problems should also be solved horizontally.

- (3) F. 1476, 96, 494
1063, 341, 598
737, 1546, 2994
L. 2084, 393, 149
585, 315, 1696
132, 149, 1794
A. 899, 176, 162
1178, 386, 969
157, 378, 7638
T. 899, 917, 1028
5994, 2699, 75
1877, 599, 147

Page 101

(4) The student should set up the problems horizontally and solve. The answers only are listed below.

- 1276
1033
397
2898
6464
184

Answer Key

Page 104

- (1) U. 13,055, 41,331,
61,251, 13,078
P. 50,108, 19,316,
3, 20,442
R. 364, 49,971,
72,798, 89,160
I. 2,306,409, 304,000,
323,112, 50,412
G. 291,179, 1,283,759,
2,037,188, 699,764
H. 776,999, 1,899,990,
2,914,109, 798,017

Page 105

- T. 29,467,922, 3,611,135,
107,009,546, 790,728,596
(2) **InteGriTy**
6,899,667, 28,510,015,
399,999,531, 201,091,928
WisDom
5,051,384, 68,001,385,
25,002,080, 519,999,200

Page 106

- (1) Ruth 1:2 – Elimelech,
Ruth 1:2 – Naomi,
Ruth 2:4 – Boaz,
I Samuel 16:1 – Jesse,
II Samuel 2:32 – Joab,
II Samuel 2:32 – Abishai,
II Samuel 2:32 – Asahel,

I Samuel 17:12 – David,
Luke 2:7 – Jesus Christ

- (2) Naomi
Elimelech
David
Joab, Abishai
Asahel
Jesus Christ

Page 107

- (3) $A = 2, 5, 2$
 $B = 2 + 5 + 2 = 9$
 $C = 9 - 2 = 7$

Page 108

- (1) 367 years
(2) 73 years

Page 109

- (3) Rehoboam = $975 - 957 =$
18 years
Abijah = $957 - 955 = 2$ years
Asa = $955 - 912 = 43$ years
Jehoshaphat = $912 - 896 =$
16 years
David = L
Solomon = L
Asa = L

Answer Key

Page 110

- (1) $\$63,454.32 - \$47,132.25 =$
 $\$16,322.07$
- (2) $\$231,109.45 - \$71,321.06 =$
 $\$159,788.39$
- (3) The third week.
 $\$159,788.39 \times .3 = \$47,936.52$

Page 111

Teacher, check.

Page 118

- (1) 1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12

Page 119

- (2) $21 - 10 = 11$, $15 - 10 = 5$,
 $13 - 10 = 3$, $11 - 10 = 1$,
 $19 - 10 = 9$, $20 - 10 = 10$,
 $17 - 10 = 7$, $18 - 10 = 8$,
 $12 - 10 = 2$, $14 - 10 = 4$,
 $16 - 10 = 6$, $22 - 10 = 12$

Page 122

- (1) K. 22, 32, 33, 15, 53, 32, 12
N. 31, 11, 23, 26, 16, 42, 13
O. 35, 23, 23, 47, 32, 14, 64
C. 572, 294, 392, 835, 412, 233
K. 274, 569, 342, 237, 212, 621

The student should check all answers

Page 123

- D. 161, 334, 217,
524, 443, 232
- O. 446, 111, 641,
215, 393, 573
- O. 545, 214, 242,
463, 310, 666
- R. 432, 357, 143,
341, 434, 423
- (2) O. 40, 18, 49
37, 29, 18
36, 8, 9
- P. 19, 27, 40
6, 7, 54
27, 39, 9
- E. 18, 26, 28
13, 36, 9
7, 18, 46
- N. 18, 25, 29
17, 9, 29
38, 30, 37

The student should check all answers horizontally.

Answer Key

Page 124

- DOOR 39, 28, 37
28, 29, 17
49, 20, 9
- (3) I. 44, 55, 38, 17, 32, 25, 22
- W. 7, 29, 2, 37, 5, 5, 37
I. 20, 51, 34
49, 34, 8
64, 47, 18
43, 22, 61
- L. 100, 94, 105, 300, 462, 320
L. 286, 219, 328, 315, 475, 247

Page 125

- C. 37, 28, 30
18, 18, 37
22, 16, 28
27, 27, 48
- O. 82, 159, 689, 188, 557, 96
- M. 54, 4, 209, 98, 298, 431
- E. 17, 8, 14
36, 16, 39
21, 18, 43
17, 15, 7
- I. 279, 24, 343, 358, 192, 510
- N. 498, 28, 242, 432, 536, 412

The student should check all problems.

Page 128

- (1) O. 2.94, 44.13, 4.02,
320.1, 4.11
- P. 199.1, 1.99, 13.9,
13.21, 88.2
- E. 12.92, 7.92, 73.9,
98.6, 179.8
- N. 52.86, 6.68, 3.26,
28.91, 8.69
- T. 23.89, 16.83, 254.94,
25.8, 199.07
- H. 28.88, 89.1, 180.0,
328.91, 2.29

Page 129

- (2) E. 18.65, 176.3, 211.03
16.026, 286.38, 140.34
150.91, 48.05, 856.782
28.44, 9.443, .771
- D. .17, .162, 29.64,
6.564, 203.72
- O. .24, 21.325, 3.58,
18.31, 98.2

The student should write out all problems in vertical form to find the answers. Zeros need to be inserted in all empty spaces.

Answer Key

Page 130

- (3) O. .23, 5.56, 182.26,
116.93, 268.92
R. 197.99, 166.96, 47.92,
111.23, 195.73
A. 37.89, 299.82, 267.69,
186.74, 37.32
T. 739.6, 659.638, 386.01,
194.81, 184.8
O. 46.78, 8.98, 161.33,
191.92, 186.17
N. 160.73, 14.01, 26.95,
22.885, 188.66
C. 489.68, 214.5, 198.83,
880.35, 187.1

Page 131

- E. 5.25, 27.11, 4.851
.066, 32.65, 6.72
82.55, 557.85, 159.5

The student should check all problems with addition.

- (4) \$299.00
17.81
186.05
5.5
\$860.85
\$81.47
\$197.60
\$778.05

Page 133

- (1) C. 31,111, 309,998,
213,115, 15,127
A. 97,052, 10,807,
108,891, 70,203
R. 209,995, 111,004,
300,588, 60,003
E. \$491.57, \$6,711.12,
\$930.78, \$3,247.39
F. \$54,014.10, \$30,643.96,
\$10,822.56, \$18,011.99
U. \$21,008.54, \$20,180.54,
\$40,917.07, \$40,205.39
L. \$84,533.42, \$78,986.75,
\$72,858.41, \$20,364.32

Page 134

DO
OPEN
OUR
HEARTS

Page 135

- (1) 10
6
4
(2) 10
6, $16 - 10 = 6$
10, $22 - 12 = 10$

Answer Key

Page 136

- (3) $22 - 10 = 12$, $10 - 9 = 1$,
 $11 - 10 = 1$, $16 - 9 = 7$
 $17 - 9 = 8$, $14 - 9 = 5$,
 $20 - 10 = 10$, $15 - 10 = 5$
 $19 - 10 = 9$

Page 137

- $18 - 9 = 9$, $17 - 10 = 7$,
 $11 - 9 = 2$, $15 - 9 = 6$
 $12 - 9 = 3$, $16 - 10 = 6$,
 $21 - 10 = 11$, $18 - 10 = 8$
 $13 - 9 = 4$, $14 - 10 = 4$,
 $12 - 10 = 2$, $13 - 10 = 3$

Page 138

- (1) \$28,562.48
(2) \$14,869.62
(3) \$5,116.95

Page 139

- (1) 4,144
(2) no, \$58.00
(3) \$103.01

Page 140

Teacher, check.

Page 146

Angels

Page 149

- (1) 1, 2, 3, 4, 5, 6
7, 8, 9, 10, 11, 12
(2) $19 - 11 = 8$, $17 - 11 = 6$,
 $22 - 11 = 11$, $16 - 11 = 5$
 $14 - 11 = 3$, $13 - 11 = 2$,
 $23 - 11 = 12$, $20 - 11 = 9$
 $21 - 11 = 10$, $18 - 11 = 7$,
 $12 - 11 = 1$, $15 - 11 = 4$

Page 150

Teacher, check.

Page 151

- (3)
$$\begin{array}{r} 11 \quad 13 \quad 7 \\ - 4 \quad - 11 \quad - 2 \\ \hline 7 \quad 2 \quad 5 \end{array}$$

$$\begin{array}{r} 11 \quad 12 \quad 4 \\ - 7 \quad - 11 \quad - 1 \\ \hline 4 \quad 1 \quad 3 \end{array}$$

$$\begin{array}{r} 11 \quad 20 \quad 9 \\ - 3 \quad - 11 \quad - 8 \\ \hline 8 \quad 9 \quad 1 \end{array}$$

Answer Key

Page 152

$$\begin{array}{r} 11 \quad 15 \quad 6 \\ - 5 \quad - 11 \quad - 4 \\ \hline 6 \quad 4 \quad 2 \end{array}$$

$$\begin{array}{r} 11 \quad 19 \quad 9 \\ - 2 \quad - 11 \quad - 8 \\ \hline 9 \quad 8 \quad 1 \end{array}$$

$$\begin{array}{r} 11 \quad 21 \quad 10 \\ - 8 \quad - 11 \quad - 3 \\ \hline 3 \quad 10 \quad 7 \end{array}$$

$$\begin{array}{r} 11 \quad 18 \quad 7 \\ - 6 \quad - 11 \quad - 5 \\ \hline 5 \quad 7 \quad 2 \end{array}$$

$$\begin{array}{r} 11 \quad 23 \quad 12 \\ - 9 \quad - 11 \quad - 2 \\ \hline 2 \quad 12 \quad 10 \end{array}$$

$$\begin{array}{r} 11 \quad 16 \quad 5 \\ - 11 \quad - 11 \quad - 0 \\ \hline 0 \quad 5 \quad 5 \end{array}$$

Page 153

(4) $15 - 8 = 7$, $17 - 9 = 8$,
 $14 - 11 = 3$, $18 - 10 = 8$
 $10 - 8 = 2$, $8 - 7 = 1$,
 $16 - 7 = 9$, $13 - 7 = 6$, $14 - 9 = 5$,
 $18 - 9 = 9$, $17 - 11 = 6$, $11 - 9 = 2$,
 $22 - 11 = 11$, $15 - 10 = 5$, $23 - 11 = 12$,
 $12 - 10 = 2$, $12 - 11 = 1$, $23 - 11 = 12$,
 $12 - 8 = 4$

$12 - 7 = 5$, $19 - 9 = 10$,
 $13 - 8 = 5$, $13 - 11 = 2$
 $21 - 11 = 10$, $11 - 7 = 4$,
 $15 - 7 = 8$, $13 - 9 = 4$, $9 - 8 = 1$,
 $16 - 9 = 7$, $15 - 11 = 4$, $17 - 8 = 9$,
 $22 - 11 = 11$, $16 - 11 = 5$, $23 - 11 = 12$,

Page 154

$14 - 7 = 7$, $12 - 9 = 3$,
 $10 - 7 = 3$, $22 - 11 = 11$,
 $20 - 11 = 9$, $11 - 8 = 3$,
 $15 - 11 = 4$, $15 - 9 = 6$,
 $14 - 8 = 6$, $19 - 11 = 8$,
 $9 - 7 = 2$, $10 - 9 = 1$,
 $23 - 11 = 12$, $18 - 11 = 7$,
 $16 - 8 = 8$

Page 155

alcoholic drink – evil
grapes – good

See page 155.

Answer Key

Page 156

- (1)
1. yes
 2. no
 3. yes
 4. yes
 5. no
 6. no
 7. no
 8. yes
 9. yes
 10. no
 11. no

Page 156 continued

- (2)
- U. 8 moons, 6 KJV Bibles
- N. 13 robins, 6 cars,
9 quarters
- I. 13 blood cells, 16 gold,
12 ounces
- T. 58 trees, 35 yards
- E. 22 years, 9 dollars

Page 157

- (3) Teacher, check.

Page 158

(4)

$$\begin{array}{r} 39 \text{ hr. } 6 \text{ d. } 27 \text{ wk.} \\ - 24 \text{ hr. } 3 \text{ d. } 16 \text{ wk.} \\ \hline 15 \text{ hr. } 3 \text{ d. } 11 \text{ wk.} \end{array}$$

$$\begin{array}{r} 43 \text{ gal. } 20 \text{ c.} \\ - 5 \text{ gal. } 9 \text{ c.} \\ \hline 38 \text{ gal. } 11 \text{ c.} \end{array}$$

$$\begin{array}{r} 54 \text{ mi. } 99 \text{ yd.} \\ - 32 \text{ mi. } 27 \text{ yd.} \\ \hline 22 \text{ mi. } 72 \text{ yd.} \end{array}$$

$$\begin{array}{r} 48 \text{ yr. } 29 \text{ mo.} \\ - 23 \text{ yr. } 9 \text{ mo.} \\ \hline 25 \text{ yr. } 20 \text{ mo.} \end{array}$$

$$\begin{array}{r} 19 \text{ wk. } 9 \text{ d.} \\ - 4 \text{ wk. } 6 \text{ d.} \\ \hline 15 \text{ wk. } 3 \text{ d.} \end{array}$$

$$\begin{array}{r} 32 \text{ yr. } 43 \text{ mo.} \\ - 20 \text{ yr. } 39 \text{ mo.} \\ \hline 12 \text{ yr. } 4 \text{ mo.} \end{array}$$

$$\begin{array}{r} 33 \text{ dollars } 87 \text{ cents} \\ - 9 \text{ dollars } 38 \text{ cents} \\ \hline 24 \text{ dollars } 49 \text{ cents} \end{array}$$

$$\begin{array}{r} 43 \text{ lb. } 32 \text{ oz.} \\ - 5 \text{ lb. } 29 \text{ oz.} \\ \hline 38 \text{ lb. } 3 \text{ oz.} \end{array}$$

Answer Key

Page 159

$$\begin{array}{r} 28 \text{ d. } 44 \text{ hr. } 53 \text{ sec.} \\ - 9 \text{ d. } 26 \text{ hr. } 32 \text{ sec.} \\ \hline 19 \text{ d. } 18 \text{ hr. } 21 \text{ sec.} \end{array}$$

$$\begin{array}{r} 32 \text{ yr. } 5 \text{ mo. } 8 \text{ wk.} \\ - 29 \text{ yr. } 2 \text{ mo. } 4 \text{ wk.} \\ \hline 3 \text{ yr. } 3 \text{ mo. } 4 \text{ wk.} \end{array}$$

$$\begin{array}{r} 24 \text{ d. } 10 \text{ hr. } 38 \text{ min.} \\ - 24 \text{ d. } 7 \text{ hr. } 32 \text{ min.} \\ \hline 0 \text{ d. } 3 \text{ hr. } 6 \text{ min.} \end{array}$$

$$\begin{array}{r} 28 \text{ gal. } 9 \text{ qt. } 5 \text{ c.} \\ - 24 \text{ gal. } 3 \text{ qt. } 4 \text{ c.} \\ \hline 4 \text{ gal. } 6 \text{ qt. } 1 \text{ c.} \end{array}$$

$$\begin{array}{r} 3 \text{ gal. } 4 \text{ qt.} \\ - 2 \text{ gal. } 3 \text{ qt.} \\ \hline 1 \text{ gal. } 1 \text{ qt.} \end{array}$$

$$\begin{array}{r} 28 \text{ yr. } 20 \text{ d.} \\ - 22 \text{ yr. } 4 \text{ d.} \\ \hline 6 \text{ yr. } 16 \text{ d.} \end{array}$$

$$\begin{array}{r} 39 \text{ ft. } 20 \text{ in.} \\ - 24 \text{ ft. } 3 \text{ in.} \\ \hline 15 \text{ ft. } 17 \text{ in.} \end{array}$$

$$\begin{array}{r} 20 \text{ mi. } 97 \text{ yd.} \\ - 4 \text{ mi. } 53 \text{ yd.} \\ \hline 16 \text{ mi. } 44 \text{ yd.} \end{array}$$

$$(5) \quad \begin{array}{r} 52 \text{ yr. } 89 \text{ d.} \\ - 23 \text{ yr. } 58 \text{ d.} \\ \hline 29 \text{ yr. } 31 \text{ d.} \end{array} \quad \begin{array}{r} 23 \text{ bu. } 25 \text{ qt. } 69 \text{ pt.} \\ - 9 \text{ bu. } 22 \text{ qt. } 8 \text{ pt.} \\ \hline 14 \text{ bu. } 3 \text{ qt. } 61 \text{ pt.} \end{array}$$

$$\begin{array}{r} 29 \text{ dollars } 95 \text{ cents} \\ - 24 \text{ dollars } 37 \text{ cents} \\ \hline 5 \text{ dollars } 58 \text{ cents} \end{array} \quad \begin{array}{r} 26 \text{ wk. } 8 \text{ d. } 34 \text{ hr.} \\ - 9 \text{ wk. } 6 \text{ d. } 9 \text{ hr.} \\ \hline 17 \text{ wk. } 2 \text{ d. } 25 \text{ hr.} \end{array}$$

Page 160

$$\begin{array}{r} 98 \text{ dollars } 95 \text{ cents} \\ - 25 \text{ dollars } 38 \text{ cents} \\ \hline 73 \text{ dollars } 57 \text{ cents} \end{array} \quad \begin{array}{r} 38 \text{ mi. } 97 \text{ yd. } 5 \text{ ft.} \\ - 9 \text{ mi. } 49 \text{ yd. } 3 \text{ ft.} \\ \hline 29 \text{ mi. } 48 \text{ yd. } 2 \text{ ft.} \end{array}$$

$$\begin{array}{r} 28 \text{ hr. } 57 \text{ min.} \\ - 9 \text{ hr. } 23 \text{ min.} \\ \hline 19 \text{ hr. } 34 \text{ min.} \end{array} \quad \begin{array}{r} 58 \text{ lb. } 7 \text{ oz.} \\ - 6 \text{ lb. } 5 \text{ oz.} \\ \hline 52 \text{ lb. } 2 \text{ oz.} \end{array}$$

$$\begin{array}{r} 5 \text{ gal. } 27 \text{ qt. } 29 \text{ c.} \\ - 4 \text{ gal. } 3 \text{ qt. } 6 \text{ c.} \\ \hline 1 \text{ gal. } 24 \text{ qt. } 23 \text{ c.} \end{array}$$

$$\begin{array}{r} 52 \text{ d. } 29 \text{ hr. } 52 \text{ sec.} \\ - 12 \text{ d. } 7 \text{ hr. } 8 \text{ sec.} \\ \hline 40 \text{ d. } 22 \text{ hr. } 44 \text{ sec.} \end{array}$$

$$\begin{array}{r} 98 \text{ dollars } 33 \text{ cents} \\ - 89 \text{ dollars } 24 \text{ cents} \\ \hline 9 \text{ dollars } 9 \text{ cents} \end{array}$$

$$\begin{array}{r} 24 \text{ dollars } 82 \text{ cents} \\ - 8 \text{ dollars } 23 \text{ cents} \\ \hline 16 \text{ dollars } 59 \text{ cents} \end{array}$$

$$\begin{array}{r} 95 \text{ yd. } 8 \text{ ft. } 22 \text{ in.} \\ - 7 \text{ yd. } 6 \text{ ft. } 4 \text{ in.} \\ \hline 88 \text{ yd. } 2 \text{ ft. } 18 \text{ in.} \end{array}$$

Answer Key

Page 160 continued

$$\begin{array}{r} 25 \text{ tons } 84 \text{ lb. } 25 \text{ oz.} \\ - 22 \text{ tons } 39 \text{ lb. } 4 \text{ oz.} \\ \hline 3 \text{ tons } 45 \text{ lb. } 21 \text{ oz.} \end{array}$$

Page 162

(1) U.

$$\begin{array}{r} 300 (5 \times 60) \\ 24 (2 \times 12) \\ 200 (2 \times 100) \\ 16 (4 \times 4) \end{array}$$

N.

$$\begin{array}{r} 12 \text{ pk.} \\ \text{3 bu.} \\ - 5 \text{ pk.} \\ \hline 7 \text{ pk.} \end{array}$$

$$\begin{array}{r} 240 \text{ in.} \\ 20 \text{ ft.} \\ - 48 \text{ in.} \\ \hline 192 \text{ in.} \end{array}$$

$$\begin{array}{r} 144 (9 \times 16) \\ 288 (8 \times 36) \\ 3 (36 \div 12) \\ 48 (3 \times 16) \\ 20 (5 \times 4) \\ 48 (4 \times 12) \\ 60 (6 \times 10) \\ 48 (4 \times 12) \\ 18 (6 \times 3) \\ 64 \text{ oz. } (4 \times 16) \end{array}$$

$$\begin{array}{r} 192 \text{ hr.} \\ 8 \text{ d.} \\ - 20 \text{ hr.} \\ \hline 172 \text{ hr.} \end{array} \quad \begin{array}{r} 144 \text{ oz.} \\ 9 \text{ lb.} \\ - 16 \text{ oz.} \\ \hline 128 \text{ oz.} \end{array}$$

Page 163

I.

$$\begin{array}{r} 24 \text{ ft.} \\ 8 \text{ yd.} \\ - 10 \text{ ft.} \\ \hline 14 \text{ ft.} \end{array}$$

$$\begin{array}{r} 88 \text{ qt.} \\ 22 \text{ gal.} \\ - 17 \text{ qt.} \\ \hline 71 \text{ qt.} \end{array}$$

$$\begin{array}{r} 120 \text{ sec.} \\ 2 \text{ min.} \\ - 36 \text{ sec.} \\ \hline 84 \text{ sec.} \end{array} \quad \begin{array}{r} 80 \text{ oz.} \\ 5 \text{ lb.} \\ - 20 \text{ oz.} \\ \hline 60 \text{ oz.} \end{array}$$

T.

$$\begin{array}{r} 84 \text{ in.} \\ 7 \text{ ft.} - 22 \text{ in.} = 62 \text{ in.} \end{array}$$

$$\begin{array}{r} 240 \text{ min.} \\ 4 \text{ hr.} - 36 \text{ min.} = 204 \text{ min.} \end{array}$$

$$\begin{array}{r} 96 \text{ hr.} \\ 4 \text{ d.} - 29 \text{ hr.} = 67 \text{ hr.} \end{array}$$

$$\begin{array}{r} 18 \text{ ft.} \\ 6 \text{ yd.} - 7 \text{ ft.} = 11 \text{ ft.} \end{array}$$

S.

$$\begin{array}{r} 21 \text{ ft.} \\ 7 \text{ yd.} - 6 \text{ feet} = 15 \text{ ft.} \end{array}$$

$$\begin{array}{r} 48 \text{ oz.} \\ 3 \text{ lb.} - 9 \text{ oz.} = 39 \text{ oz.} \end{array}$$

$$\begin{array}{r} 92 \text{ pk.} \\ 23 \text{ bu.} - 9 \text{ pk.} = 83 \text{ pk.} \end{array}$$

$$\begin{array}{r} 16 \text{ pt.} \\ 8 \text{ qt.} - 9 \text{ pt.} = 7 \text{ pt.} \end{array}$$

Answer Key

Page 165

(2)

<p>B. 50 gal. 3 qt. - 45 gal. 3 qt. <u> </u> 5 gal. 0 qt.</p>	<p> 2 54 3-yd. 18-in. - 1 yd. <u>22 in.</u> <u> </u> 1 yd. 32 in.</p>	<p> 23 17 24ft. 5-in. - 9 ft. <u>7 in.</u> <u> </u> 14 ft. 10 in.</p>
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<p> 6 7 U. 7-gal. 3-qt. - 4 qt. <u> </u> 6 gal. 3 qt.</p>	<p> 86 lb. 24 oz. - 24 lb. <u>16 oz.</u> <u> </u> 62 lb. 8 oz.</p>	<p> 4 11 5-wk. 4-d. - 3 wk. <u>6 d.</u> <u> </u> 1 wk. 5 d.</p>
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<p> 8 20 I. 9-ft. 8-in. - 7 ft. <u>9 in.</u> <u> </u> 1 ft. 11 in.</p>	<p> 25 6 26-bu. 2-pk. - 24 bu. <u>4 pk.</u> <u> </u> 1 bu. 2 pk.</p>	<p> 27 103 28-dol. 3-ct. - 6 dol. <u>8 ct.</u> <u> </u> 21 dol. 95 ct.</p>
--	--	--

<p> 5 5 L. 6-yd. 2-ft. 10 in. - 4 yd. 3 ft. _____ <u> </u> 1 yd. 2 ft. 10 in.</p>	<p> 3 5 10 4-bu. 2-pk. 2-qt. - 2 bu. 3 pk. 4 qt. <u> </u> 1 bu. 2 pk. 6 qt.</p>	
---	--	--

<p> 23 30 D. 24-d. 6-hr. - 8 d. <u>17 hr.</u> <u> </u> 15 d. 13 hr.</p>	<p> 57 89 58-min. 29-sec. - 49 min. <u>55 sec.</u> <u> </u> 8 min. 34 sec.</p>	<p> 21 89 22-hr. 29-min. - 7 hr. <u>43 min.</u> <u> </u> 14 hr. 46 min.</p>
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<p> 3 d. 9 hr. 9 min. I. _____ - 7 hr. 6 min. <u> </u> 3 d. 2 hr. 3 min.</p>	<p> 3 26 86 4 d. 3-hr. 26-min. - 8 hr. <u>59 min.</u> <u> </u> 3 d. 18 hr. 27 min.</p>	
--	--	--

<p> 31 87 N. 32 hr. 27 min. 35 sec. - 31 hr. <u>36 min.</u> <u> </u> 0 hr. 51 min. 35 sec.</p>	<p> 23 59 3 d. 24-hr. 60-min. 60 sec. - 2 d. <u>35 min. 35 sec.</u> <u> </u> 1 d. 23 hr. 24 min. 25 sec.</p>	
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Answer Key

Page 165 continued

$$\begin{array}{r} \text{G.} \quad 7 \text{ hr. } 25 \text{ min.} \\ - 4 \text{ hr. } 5 \text{ min.} \\ \hline 3 \text{ hr. } 20 \text{ min.} \end{array}$$

$$\begin{array}{r} 2 \quad 59 \\ 3\text{-hr. } 60\text{-min. } 60 \text{ sec.} \\ - 1 \text{ hr. } 4 \text{ min. } 10 \text{ sec.} \\ \hline 1 \text{ hr. } 55 \text{ min. } 50 \text{ sec.} \end{array}$$

$$\begin{array}{r} 3 \quad 23 \quad 90 \\ 4\text{-d. } 24\text{-hr. } 30\text{-min.} \\ - 3 \text{ d. } 7 \text{ hr. } 46 \text{ min.} \\ \hline 16 \text{ hr. } 44 \text{ min.} \end{array}$$

$$\begin{array}{r} 7 \quad 90 \\ 8\text{-hr. } 30\text{-min.} \\ - 5 \text{ hr. } 48 \text{ min.} \\ \hline 2 \text{ hr. } 42 \text{ min.} \end{array}$$

$$\begin{array}{r} 61 \\ 2 \quad 1 \\ 3\text{-hr. } 2\text{-min. } 60 \text{ sec.} \\ - \quad 24 \text{ min. } 59 \text{ sec.} \\ \hline 2 \text{ hr. } 37 \text{ min. } 1 \text{ sec.} \end{array}$$

Page 168

$$(1) \quad \begin{array}{r} 1,633, 10,233, 1,556, 3,143 \\ 598, 10,770, 5,888, 998 \\ 12,389, 118, 3,118, 13,975 \\ 8,129, 18,379, 47,220, 91,221 \end{array}$$

$$(2) \quad \begin{array}{r} 804, 471, 1,330 \\ 1,690, 459, 596 \\ 9,780, 3,013 \\ 219, 153 \end{array}$$

Page 169

$$\begin{array}{r} 25 \\ 22 \\ 37 \end{array}$$

Page 170

$$(1) \quad \begin{array}{r} 10 + 4 + 3 + 3 + = 20 \\ 20 - 11 = 9 \end{array}$$

$$(2) \quad \begin{array}{r} 19 \text{ oz.} \quad 570 \text{ milliliters} \\ - 11 \text{ oz.} \quad - 330 \text{ milliliters} \\ \hline 8 \text{ oz.} \quad 240 \text{ milliliters} \end{array}$$

$$(3) \quad \begin{array}{r} 11 \text{ oz.} \quad 330 \text{ milliliters} \\ + 5 \text{ oz.} \quad + 150 \text{ milliliters} \\ \hline 16 \text{ oz.} \quad 480 \text{ milliliters} \end{array}$$

Answer Key

Page 171

(1) $10 \times 12 = 120 \text{ in.}$
 $120 - 5 = \underline{115 \text{ in.}}$

(2) $8 \times 12 = 96 \text{ in.}$
 $96 - 3 = \underline{93 \text{ in.}}$

(3)
$$\begin{array}{r} 2 \quad 18 \\ 3 \text{ yd. } 3 \text{ ft. } 6 \text{ in.} \\ - 1 \text{ yd. } 2 \text{ ft. } 8 \text{ in.} \\ \hline 2 \text{ yd. } 0 \text{ ft. } 10 \text{ in.} \end{array}$$

$$\begin{array}{r} 12 \\ 3 \end{array}$$

Page 172

(1) $6.79 - .75 = 6.04$
 $6.04 - 2.45 = \$3.59$

(2) $15.35 + 7.99 + 6.50 + 2.54 =$
 32.38
 $32.38 - 11.32 = \underline{\$21.06}$

(3) $382 + 402 + 358 + 577 + 509 +$
 $739 = 2,967$
 $5,377 - 2,967 = \underline{2,410 \text{ gal.}}$

Page 187

(1) $24 - 12 = 12, 14 - 12 = 2,$
 $18 - 12 = 6, 21 - 12 = 9$
 $20 - 12 = 8, 23 - 12 = 11,$
 $17 - 12 = 5, 22 - 12 = 10$
 $13 - 12 = 1, 19 - 12 = 7,$
 $26 - 12 = 14, 15 - 12 = 3$

Page 188

(2) $24 - 12 = 12, 14 - 11 = 3,$
 $19 - 9 = 10, 24 - 12 = 12$
 $17 - 12 = 5, 17 - 11 = 6,$
 $18 - 12 = 6, 11 - 7 = 4$
 $19 - 10 = 9, 14 - 12 = 2,$
 $18 - 11 = 7, 13 - 8 = 5$
 $15 - 7 = 8, 19 - 12 = 7,$
 $15 - 11 = 4, 10 - 8 = 2$
 $16 - 7 = 9, 12 - 9 = 3,$
 $23 - 12 = 11, 17 - 10 = 7$
 $16 - 12 = 4, 12 - 7 = 5,$
 $12 - 10 = 2, 18 - 9 = 9$
 $13 - 10 = 3, 13 - 11 = 2,$
 $13 - 7 = 6, 20 - 17 = 3$
 $17 - 9 = 8, 16 - 10 = 6$
 $15 - 10 = 5, 10 - 7 = 3,$
 $16 - 11 = 5, 14 - 10 = 4$
 $11 - 9 = 2, 13 - 9 = 4,$
 $9 - 7 = 2, 14 - 9 = 5$
 $21 - 11 = 10, 16 - 9 = 7,$
 $12 - 8 = 4, 17 - 8 = 9$
 $15 - 8 = 7, 15 - 9 = 6,$
 $22 - 12 = 10, 15 - 12 = 3$
 $12 - 7 = 5, 14 - 7 = 7,$
 $19 - 11 = 8, 21 - 12 = 9$

Answer Key

Page 190

- (1) U. 73 min.
 113 min.
 89 sec.
 95 min.
 N. 93 sec.
 69 min.
 115 min.
 99 min.
 I. 104 min.
 77 min.

Page 190 continued

- 92 sec.
 86 sec.
 T. 92 min.
 102 sec.
 82 sec.
 87 sec.
 S. 97 min.
 119 min.
 173 min.
 193 min.

Page 192

		33	60		28	60
(2)	O.	34 hours	26 minutes		29 hours	35 minutes
		<u>– 6</u> hours	<u>42</u> minutes		<u>– 22</u> hours	<u>43</u> minutes
		27 hours	44 minutes		6 hours	52 minutes

		23	60		11	60
		24 hours	57 minutes		12 hours	38 minutes
		<u>– 22</u> hours	<u>59</u> minutes		<u>– 10</u> hours	<u>44</u> minutes
		1 hours	58 minutes		1 hours	54 minutes

		26	60		14	60
	F.	27 hours	49 minutes		15 hours	27 minutes
		<u>– 20</u> hours	<u>58</u> minutes		<u>– 11</u> hours	<u>43</u> minutes
		6 hours	51 minutes		3 hours	44 minutes

		17	60		24	60
		18 hours	37 minutes		25 hours	37 minutes
		<u>– 7</u> hours	<u>42</u> minutes		<u>– 3</u> hours	<u>39</u> minutes
		10 hours	55 minutes		21 hours	58 minutes

Answer Key

Page 192 continued

(3)

		27	60				
T.	32 hours	29 minutes		28 hours	30 minutes		
	<u>- 29 hours</u>	<u>5 minutes</u>		<u>- 24 hours</u>	<u>46 minutes</u>		
	3 hours	24 minutes		3 hours	44 minutes		

	15	60		11	60
	16 min.	11 sec.		12 hr.	8 min.
	<u>- 14 min.</u>	<u>40 sec.</u>		<u>- 3 hr.</u>	<u>11 min.</u>
	1 min.	31 sec.		8 hr.	57 min.

Page 193

		28	60		
I.	23 min.	36 sec.		29 hr.	29 min.
	<u>- 8 min.</u>	<u>30 sec.</u>		<u>- 8 hr.</u>	<u>32 min.</u>
	15 min.	6 sec.		20 hr.	57 min.

	6	60		15	60
	7 min.	18 sec.		16 hr.	38 min.
	<u>- 6 min.</u>	<u>34 sec.</u>		<u>- 5 hr.</u>	<u>42 min.</u>
	0 min.	44 sec.		10 hr.	56 min.

	28	60			
M.	29 hr.	20 min.		27 hr.	48 min.
	<u>- 8 hr.</u>	<u>56 min.</u>		<u>- 24 hr.</u>	<u>34 min.</u>
	20 hr.	24 min.		3 hr.	14 min.

	18	60		41	60
	19 hr.	13 min.		42 min.	17 sec.
	<u>- 8 hr.</u>	<u>48 min.</u>		<u>- 39 min.</u>	<u>34 sec.</u>
	10 hr.	25 min.		2 min.	43 sec.

The answers only are listed. The student should work out all answers as shown in the preceding answers.

Answer Key

Page 193 continued

- E. 14 min. 46 sec.
4 min. 20 sec.
14 hr. 27 min.
25 hr. 28 min.

Page 194

(4) The answers only are listed. The student should work out all answers as shown in the preceding answers.

- | | | |
|----|---------------------|-----------------------|
| S. | 0 min. 56 sec. | 19 hr. 30 sec. |
| C. | 3 hr. 57 min. | 3 hr. 36 min. |
| H. | 14 d. 7 hr. | 0 min. 50 sec. |
| E. | 28 min. 57 sec. | 18 min. 57 sec. |
| D. | 31 min. 34 sec. | 45 d. 11 hr. |
| U. | 11 hr. 53 min. | 6 min. 28 sec. |
| L. | 18 d. 9 hr. 49 min. | 6 hr. 55 min. |
| E. | 0 hr. 53 min. | 7 hr. 48 min. 14 sec. |

Page 196

- | | | | | |
|--------|---------------|---------------|---------------|---------------|
| (1) B. | 3 hr. 16 min. | 2 hr. 14 min. | 4 hr. | 1 hr. 48 min. |
| E. | 2 hr. 40 min. | 2 hr. 30 min. | 4 hr. 3 min. | 6 hr. 40 min. |
| F. | 6 hr. 55 min. | 4 hr. 15 min. | | |
| | 1 hr. 48 min. | 2 hr. 10 min. | | |
| | 4 hr. 36 min. | 5 hr. 15 min. | | |
| O. | 2 hr. 55 min. | 2 hr. 11 min. | 1 hr. 40 min. | 2 r. 45 min. |

Page 197

- | | | | | |
|----|---------------|---------------|---------------|---------------|
| R. | 4 hr. 19 min. | 2 hr. 10 min. | 8 hr. 35 min. | 6 hr. 38 min. |
| E. | 3 hr. 41 min. | 7 hr. 46 min. | 5 hr. 25 min. | 2 hr. 36 min. |
| A. | 4 hr. 17 min. | 2 hr. 30 min. | | |
| F. | 1 hr. 56 min. | 4 hr. 54 min. | | |

Answer Key

Page 198

- T. 3 hr. 54 min. 2 hr. 40 min.
 4 hr. 16 min. 52 min.
 4 hr. 21 min. 3 hr. 47 min.
- E. 5 hr. 6 min. 1 hr. 35 min.
 6 hr. 25 min. 12 hr. 3 min.
- R. 11 hr. 10 min. 1 hr. 2 min.
 14 hr. 20 min. 4 hr. 31 min.

Page 202

- (1) R. 39
 55
 E. 45
 57
 V. 178, 200
 242, 230
 144, 222
 1103, 1077
 1222, 1775
- (2) I. 2717
 2780
 E. 20,771
 20,656
 W. 104,706
 161,953
 I. 555,755
 129,979

Page 203

- N. 2,798,956
 3,611,416
 3,073,480
 1,346,852

(3) The student should work out and estimate his answers as shown in previous lessons.

- G. 41, 43, 27, 67
- L. 94, 186, 429, 196
- I. 14,446, 23,112,
 240,911
- V. 188,810, 716,792
 68,800
- E. 30,992,046,
 27,201,305
- S. 21,691,346, 227,322,
 29,999,005,
 498,866,910

Page 204

- (4) 96 57 99 48 a **300**
 48 69 52 18 b **187**
 42 75 63 92 c **272**
 31 89 20 11 d **151**
 a b c d
 217 290 234 169

Answer Key

Page 204 continued

$$A = 300 - 217 = 83$$

$$B = 290 - 187 = 103$$

$$C = 272 - 234 = 38$$

$$D = 169 - 151 = 18$$

635	797	647	958	a	3037
748	498	507	763	b	2516
896	372	613	417	c	2298
327	613	327	162	b	1429
a	b	c	d		
2606	2280	2094	2300		

$$A = 3037 - 2606 = 431$$

$$B = 2516 - 2280 = 236$$

$$C = 2298 - 2094 = 204$$

$$D = 2300 - 1429 = 871$$

Page 205

- (1) 5 miles or 8 kilometers
- (2) 81 miles or 129.6 kilometers
- (3) 274 miles or 438.4 kilometers

Page 206

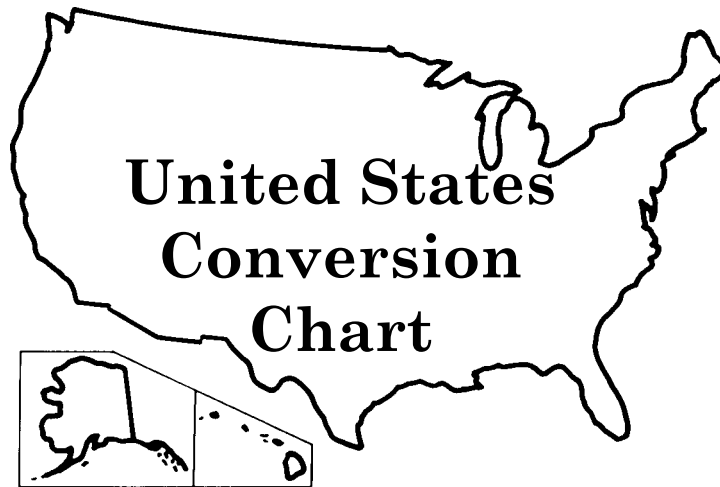
- (1) 1 hr. 25 min.
- (2) 3 hr. 32 min.
- (3) 5 hr. 40 min.

Page 207

Teacher, check.

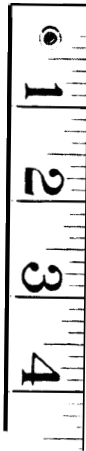
Page 208

Teacher, check.



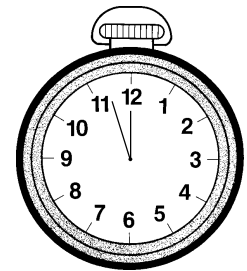
Length

12 inches = 1 foot
36 inches = 1 yard
3 feet = 1 yard
5,280 feet = 1 mile
1,760 yard = 1 mile



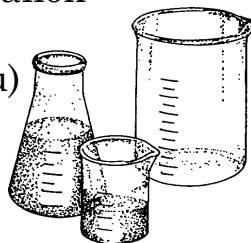
Time

60 second = 1 minute
60 minutes = 1 hour
24 hours = 1 day
7 days = 1 week
365 days = 1 year
12 months = 1 year
4 weeks = 1 months



Capacity

4 cups (c.) = 1 quart (qt.)
2 cups = 1 pint (pt.)
2 pints = 1 quart
8 pints = 1 gallon (gal.)
4 quarts = 1 gallon
3 teaspoons (tsp.) = 1 tablespoon (Tbbs.)
8 fluid (fl.) ounces (oz.) = 1 cup
16 fluid ounces = 1 pint
32 fluid ounces = 1 quart
128 fluid ounces = 1 gallon
8 quarts = 1 peck (pk)
4 pecks = 1 bushel (bu)

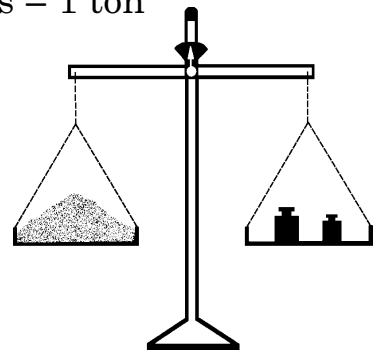


Units

1 dozen = 12 units or items

Weight

16 ounces (oz.) = 1 pound (lb.)
2,000 pounds = 1 ton





Metric Conversion Chart

Length and Distance

1 inch = 25 millimeters
1 inch = .4 centimeters
1 foot = .3 meters
1 foot = 30 centimeters
1 yard = .9 meters
1 mile = 1.6 kilometers

Surface or Area

1 acre = .4 hectares

Volume and Capacity (liquid)

1 fluid ounce = 30 milliliters
1 pint (U.S.) = .47 liters
1 quart (U.S.) = .95 liters
1 gallon (U.S.) = 3.8 liters



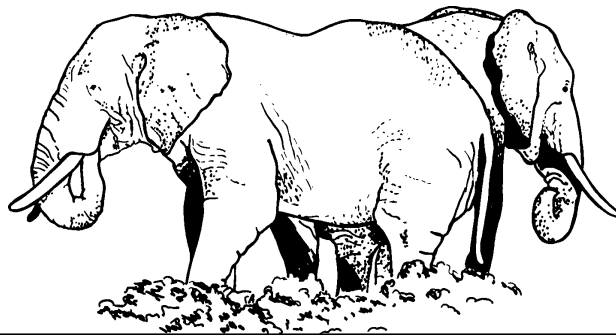
Weight and Mass

1 ounce = 28 grams
1 pound = .45 kilograms
1 ton = .9 metric tons

Temperature

$$F^{\circ} - 32 \left(\frac{5}{9}\right) = C^{\circ}$$

$$C^{\circ} \times \left(\frac{9}{5}\right) + 32 = F^{\circ}$$



Gardening Sheet

Lesson Six Subject Mathematics

Title “Subtraction II”

In Season

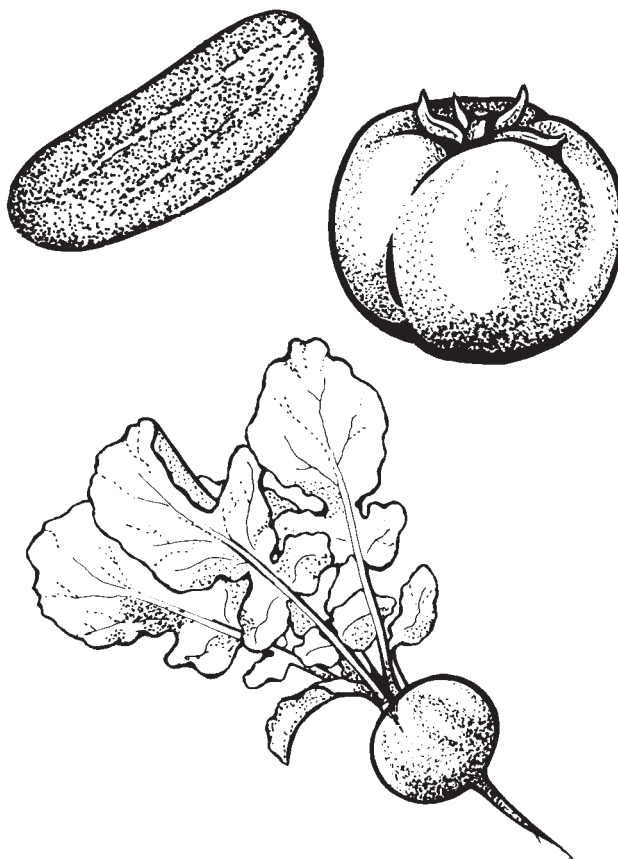
Water is made of tiny particles called molecules. Each molecule is made of particles called atoms. These atoms are made of hydrogen and oxygen. Hydrogen and oxygen are gases. But when two atoms of hydrogen combine with one atom of oxygen, they make up one water molecule. There are thousands of water molecules in one drop of water. If any one of the three atoms were subtracted out it would not make a water molecule.

Set the water sprinkler for the garden. Let it run for a set period of time. At the end of your watering period you can subtract your beginning time from your ending time. How much time did you water? Keep track for one week by writing it on a calendar.



Out of Season

Do research to find out how much water some of your favorite garden vegetables and fruits are made up of. Do you see why it is important that they receive water while growing? How much water are you made up of?



“Therefore remove sorrow from thy heart,
and put away evil from thy flesh:
for childhood and youth are vanity.”

Ecclesiastes 11:10



Each booklet in the series,
“Designing Your Own School Program,”
is planned for a family to study together
for their homeschool curriculum;
yet versatile enough to be used in the conventional classroom.
Learn the principles of the subject matter from the Scriptures;
discover more academic information; then apply it to your daily life.

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are available in the following titles:

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- 2 - A Place
- 3 - Addition i
- 4 - Addition ii
- 5 - Subtraction i
- 6 - Subtraction ii
- 7 - Multiplication i
- 8 - Multiplication ii
- 9 - Division i
- 10 - Division ii



Mark 4:29