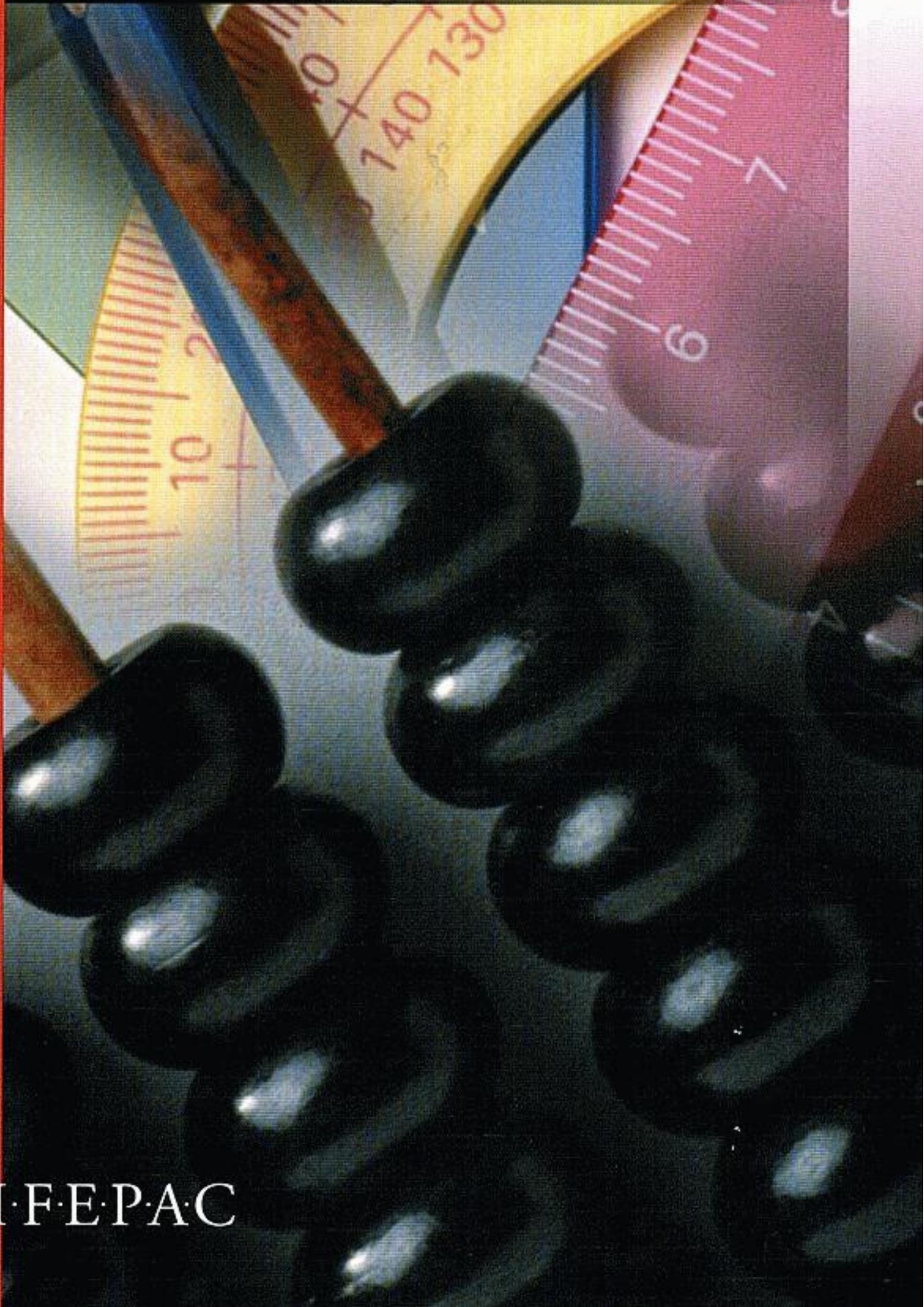




ALPHA OMEGA
PUBLICATIONS

Math

Grade
4
Unit
5



L·I·F·E·P·A·C

MATHEMATICS 405

CONTENTS

I.	DIVISION, ADDITION SUBTRACTION, MULTIPLICATION	1
II.	UNITS OF MEASURE DIVISION FACTS	9
III.	CALENDAR, PERIMETER AND AREA ADD AND SUBTRACT FRACTIONS	16
IV.	MISSING NUMBER PROBLEMS ROMAN NUMERALS, DIVISION SIGNS	24
V.	READING, REVIEW, AND REINFORCEMENT PICTURE GRAPH	32

Author:
Editor:
Graphic Design:

Carol Bauler, B.A.
Alan Christopherson, M.S.
JoAnn R. Cumming, A.A.



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Addition and subtraction make a **family of facts**.
 Multiplication and division make a **family of facts**.



You have learned two families of facts already.

3, 4, 12	$3 \times 4 = 12$	$4 \times 3 = 12$	$12 \div 3 = 4$	$12 \div 4 = 3$
3, 5, 15	$3 \times 5 = 15$	$5 \times 3 = 15$	$15 \div 3 = 5$	$15 \div 5 = 3$

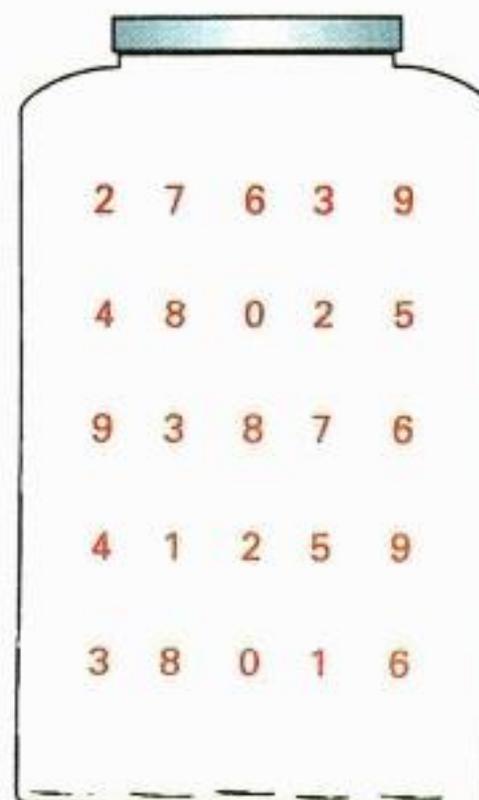
If you know your multiplication facts, you also know your division facts.

1.3 Write the missing numbers to complete the family of facts.

a. 2, 4, 8	$2 \times 4 = \underline{\quad}$	$4 \times 2 = \underline{\quad}$	$8 \div 4 = \underline{\quad}$	$8 \div 2 = \underline{\quad}$
b. 3, 7, 21	$3 \times 7 = \underline{\quad}$	$7 \times 3 = \underline{\quad}$	$21 \div 3 = \underline{\quad}$	$21 \div 7 = \underline{\quad}$
c. 5, 8, 40	$5 \times 8 = \underline{\quad}$	$8 \times 5 = \underline{\quad}$	$40 \div 5 = \underline{\quad}$	$40 \div 8 = \underline{\quad}$
d. 6, 9, 54	$6 \times 9 = \underline{\quad}$	$9 \times 6 = \underline{\quad}$	$54 \div 6 = \underline{\quad}$	$54 \div 9 = \underline{\quad}$
e. 7, 8, 56	$7 \times 8 = \underline{\quad}$	$8 \times 7 = \underline{\quad}$	$56 \div 7 = \underline{\quad}$	$56 \div 8 = \underline{\quad}$
f. 4, 5, 20	$4 \times 5 = \underline{\quad}$	$5 \times 4 = \underline{\quad}$	$20 \div 4 = \underline{\quad}$	$20 \div 5 = \underline{\quad}$

1.4 Write the number in digits. Circle it in the puzzle.

- a. seventy-eight thousand, three hundred eighteen _____
- b. thirty-one thousand, eight hundred twenty-nine _____
- c. seven thousand, seventy-nine _____
- d. four thousand, three hundred twenty-one _____
- e. seven hundred fifty-one _____
- f. eight thousand, twenty-five _____



Remember to follow the rules for multiplication.

1. Multiply from right to left.
2. If the answer has two digits, write one digit and carry the other.

$$\begin{array}{r} 22 \\ 367 \\ \times 4 \\ \hline 1,468 \end{array}$$

Multiply. 4×7 ones = 28 ones. Write the 8 ones in the ones' place and carry 2 tens.

Multiply. 4×6 tens = 24 tens.

Add the 2 tens = 26 tens.

Write the 6 tens in the tens' place and carry 2 hundreds.

Multiply. 4×3 hundreds = 12 hundreds.

Add the 2 hundreds = 14 hundreds.



1.5 Find the product. Carry when necessary.

a.
$$\begin{array}{r} 342 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 436 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 218 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 723 \\ \times 2 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 525 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 483 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 242 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 528 \\ \times 4 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 235 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 736 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 624 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 416 \\ \times 5 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 334 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 117 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 236 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 582 \\ \times 6 \\ \hline \end{array}$$

To check problems in ...

addition ...



subtraction ...

Add down.
Add up.

$$\begin{array}{r} 982 \\ 236 \\ + 746 \\ \hline 982 \end{array}$$

Subtract.
Add the difference
to the subtrahend.
The answer is the minuend.

$$\begin{array}{r} 835 \\ - 476 \\ \hline + 359 \\ \hline 835 \end{array}$$

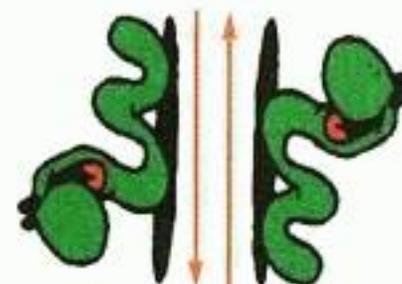
1.6 Complete the problems. Check your answers.

a.

$$\begin{array}{r} 632 \\ + 324 \\ \hline \end{array}$$

$$\begin{array}{r} 847 \\ + 332 \\ \hline \end{array}$$

$$\begin{array}{r} 526 \\ + 537 \\ \hline \end{array}$$



b.

$$\begin{array}{r} 1,763 \\ + 2,275 \\ \hline \end{array}$$

$$\begin{array}{r} 6,892 \\ + 2,163 \\ \hline \end{array}$$

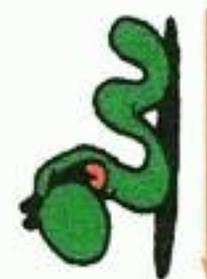
$$\begin{array}{r} 9,420 \\ + 8,632 \\ \hline \end{array}$$

c.

$$\begin{array}{r} 963 \\ - 241 \\ \hline \end{array}$$

$$\begin{array}{r} 850 \\ - 325 \\ \hline \end{array}$$

$$\begin{array}{r} 695 \\ - 249 \\ \hline \end{array}$$



d.

$$\begin{array}{r} 4,968 \\ - 2,382 \\ \hline \end{array}$$

$$\begin{array}{r} 5,398 \\ - 2,629 \\ \hline \end{array}$$

$$\begin{array}{r} 7,685 \\ - 4,896 \\ \hline \end{array}$$

1.7 Fill in the blanks with $>$, $<$, or $=$.

a. 18 _____ 12

24 _____ 8×4

b. 15 _____ 20

$7 - 5$ _____ 2×0

c. $6 + 8$ _____ $7 + 7$

3×4 _____ $20 - 9$

d. 7×5 _____ 8×4

$3 + 6$ _____ $17 - 8$

e. $6 \div 3$ _____ 2×1

$37 + 8$ _____ $42 - 6$

1.8 Write the money in digits. Solve the problem.

3 quarters \$
2 dimes
3 pennies + _____
\$

4 half dollars \$
1 quarter
2 nickels + _____
\$



2 quarters \$
4 dimes
5 nickels + _____
\$

7 dimes \$
3 nickels
8 pennies + _____
\$

1.9 Circle the numbers that are in the

a. tens' place 256 $5,349$ $7,554$

b. one thousands' place $990,675$ $68,255$ $4,621$

c. ten thousands' place $76,305$ $803,261$ $21,306$

1.10 Write the next three number words in each sequence.

a. thirty-five, thirty-six, thirty-seven, ...

b. thirty-fifth, thirty-sixth, thirty-seventh, ...

1.11 Add 8 to each number.

3 _____ 9 _____ 7 _____ 12 _____ 26 _____

1.12 Subtract 7 from each number.

16 _____ 14 _____ 17 _____ 25 _____ 9 _____

1.13 Multiply each number by 6.

4 _____ 0 _____ 8 _____ 10 _____ 7 _____

1.14 Write the time on the clocks.



1.15 Kenneth finished his volleyball game at 4:30.
Was this AM or PM?



1.16 Write the number words.

a. 7,853 _____

b. 43,085 _____

c. 206,830 _____

1.17 Arrange in number order from smallest to largest.

305,670 350,760 670,760 607,760 376,760 377,670

1.18 Write the largest number possible
using the digits 3, 7, 8, 0, 5, 6 .



SELF TEST 1

1.01 $42 \div 7 = 6$ In this problem, 42 is the _____
 (each answer, 1 point) 7 is the _____, 6 is the _____.

1.02 Write the multiplication and division family of facts for ... (each answer, 1 point)
 7, 5, 35 _____

1.03 Write the numbers in digits. (each answer, 1 point)

a. fifty-four thousand, seven hundred eight _____

b. one hundred twenty thousand, forty-nine _____

1.04 Find the product. (each answer, 1 point)

$$\begin{array}{r} 322 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 526 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 483 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 283 \\ \times 9 \\ \hline \end{array}$$

1.05 Write the money in digits. Solve. (each problem, 1 point)

2 quarters \$
 3 dimes
 1 nickel + _____
 \$

4 dimes \$
 5 nickels
 8 pennies + _____
 \$

1.06 Write the next three number words in each sequence. (2 points)

a. forty-two, forty-three, forty-four, ...

b. forty-second, forty-third, forty-fourth, ...

SELF TEST 1 (cont.)

1.07 Write the time on the clock. (each answer, 1 point)









1.08 Jim finished his math assignment at 2:00.
Was this AM or PM? (1 point)

1.09 Arrange in order from smallest to largest. (3 points)

293,467

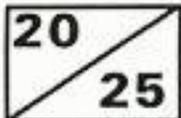
923,467

423,967

342,776

324,776

293,647



My score _____
Teacher check _____

II. PART TWO

Learn Box

I can learn about measurements.
I can learn division facts.

Linear measurements measure units of length.

In the United States, linear measurements are made in units of inches, feet, yards, and miles.

$$\begin{array}{rcl} 12 \text{ inches} & = & 1 \text{ foot} \\ 3 \text{ feet} & = & 1 \text{ yard} \\ 5,280 \text{ feet} & = & 1 \text{ mile} \end{array}$$



You will need

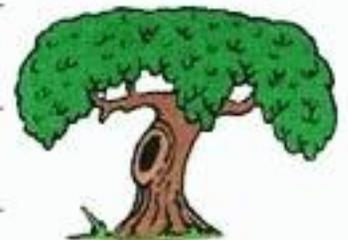
a ruler measuring 12 inches and a yardstick available to complete these exercises. Begin by marking off 12 inches or one foot on the yardstick. Also, discuss with your teacher how far you would have to go from where you are now to walk a mile.

2.1 Circle the longer unit of measurement.

- | | | | | | |
|----|-----------|--------|----|-----------|------------|
| a. | 1 inch | 1 mile | b. | 2 feet | 25 inches |
| c. | 1 yard | 1 foot | d. | 8 feet | 2 yards |
| e. | 14 inches | 1 foot | f. | 1 mile | 5,380 feet |
| g. | 5 feet | 1 yard | h. | 38 inches | 1 yard |

2.2 What unit of measurement would you use for...

- | | | |
|----|--|-------|
| a. | a book? | _____ |
| b. | the land around your house? | _____ |
| c. | the distance from one city to another? | _____ |
| d. | a fork? | _____ |
| e. | a length of cloth? | _____ |
| f. | your height? | _____ |
| g. | a board to build a tree house? | _____ |



Capacity is a measurement of the amount an object or container can hold.

Measurements of liquid capacity are made in pints, quarts, and gallons.
Measurements of dry capacity are made in ounces and pounds or pints, quarts, pecks, and bushels.

Liquid
1 pint = 16 ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts



Dry
16 ounces = 1 pound
or
2 pints = 1 quart
8 quarts = 1 peck
4 pecks = 1 bushel



You will need

an empty cup, quart and gallon containers for liquids available for this exercise. Bleach bottles, milk containers, cans from canned foods are good examples. Also, an empty box that contained a dry measurement, such as laundry detergent should be available. Examples for pecks and bushels may be more difficult to obtain.

2.3 Circle the greater unit of measurement. Use the containers for illustration.

- | | | | | | |
|----|-----------|-----------|----|-----------|----------|
| a. | 1 pound | 45 ounces | b. | 2 gallons | 5 quarts |
| c. | 2 pecks | 8 quarts | d. | 17 cups | 1 gallon |
| e. | 3 cups | 1 pint | f. | 5 quarts | 12 pints |
| g. | 35 ounces | 2 pounds | h. | 1 gallon | 5 pints |

2.4 What unit of measurement would you use for...



- | | | |
|----|--|-------|
| a. | flour to add to a cake recipe? | _____ |
| b. | peaches your family is buying for canning? | _____ |
| c. | the amount of milk your family will drink in a week? | _____ |
| d. | the amount of water a swimming pool will hold? | _____ |
| e. | fertilizer to put on the lawn? | _____ |
| f. | a candy bar? | _____ |
| g. | a serving of milk? | _____ |

Weight is the measurement of how heavy something is.
 Weight is measured in units of ounces, pounds, and tons.



$$\begin{array}{l} 16 \text{ ounces} \\ 2,000 \text{ pounds} \end{array} = \begin{array}{l} 1 \text{ pound} \\ 1 \text{ ton} \end{array}$$

2.5 Circle the greater measurement.

- a. 24 ounces 2 pounds
 b. 5,000 pounds 2 tons

2.6 What unit of measurement would you use for...

- a. your weight? _____
 b. a car? _____
 c. a bag of apples _____
 d. an airplane _____



We can multiply with numbers to the thousands' place.

$$\begin{array}{r} 3 \ 4 \ 1 \\ 2,583 \\ \times \quad 6 \\ \hline 15,498 \end{array}$$

Multiply as learned to the hundreds and continue.
 Multiply. 6×5 hundreds = 30 hundreds.
 Add the 4 hundreds = 34 hundreds.
 Write the 4 hundreds in the hundreds' place
 and carry 3 thousands.
 Multiply 6×2 thousands = 12 thousands.
 Add 3 thousands = 15 thousands.

2.7 Find the product. Carry when necessary.

$$\begin{array}{r} 2,721 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4,281 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7,250 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3,672 \\ \times \quad 8 \\ \hline \end{array}$$

2.8 Write the correct answer.

- a. $4 \div 2 =$ _____ because $2 \times$ _____ = 4
- b. $6 \div 3 =$ _____ because $3 \times$ _____ = 6
- c. $8 \div 4 =$ _____ because $4 \times$ _____ = 8
- d. $10 \div 2 =$ _____ because $2 \times$ _____ = 10
- e. $9 \div 3 =$ _____ because $3 \times$ _____ = 9
- f. $12 \div 4 =$ _____ because $4 \times$ _____ = 12
- g. $12 \div 6 =$ _____ because $6 \times$ _____ = 12
- h. $15 \div 3 =$ _____ because $3 \times$ _____ = 15
- i. $18 \div 9 =$ _____ because $9 \times$ _____ = 18
- j. $16 \div 4 =$ _____ because $4 \times$ _____ = 16
- k. $20 \div 5 =$ _____ because $5 \times$ _____ = 20
- l. $21 \div 3 =$ _____ because $3 \times$ _____ = 21
- m. $24 \div 3 =$ _____ because $3 \times$ _____ = 24
- n. $24 \div 6 =$ _____ because $6 \times$ _____ = 24
- o. $25 \div 5 =$ _____ because $5 \times$ _____ = 25
- p. $27 \div 3 =$ _____ because $3 \times$ _____ = 27
- q. $28 \div 4 =$ _____ because $4 \times$ _____ = 28
- r. $36 \div 9 =$ _____ because $9 \times$ _____ = 36
- s. $42 \div 7 =$ _____ because $7 \times$ _____ = 42
- t. $48 \div 6 =$ _____ because $6 \times$ _____ = 48
- u. $54 \div 9 =$ _____ because $9 \times$ _____ = 54
- v. $56 \div 8 =$ _____ because $8 \times$ _____ = 56
- w. $63 \div 7 =$ _____ because $7 \times$ _____ = 63
- x. $64 \div 8 =$ _____ because $8 \times$ _____ = 64
- y. $72 \div 9 =$ _____ because $9 \times$ _____ = 72

2.9 Write 'how many' and then show the value.

thousands			units		
hundreds	tens	ones	hundreds	tens	ones

a. $302,705 =$ _____ + _____ + _____ + _____ + _____ + _____

$=$ _____ + _____ + _____ + _____ + _____ + _____

b. $2,648 =$ _____ + _____ + _____ + _____ + _____ + _____

$=$ _____ + _____ + _____ + _____ + _____ + _____

c. $32,850 =$ _____ + _____ + _____ + _____ + _____ + _____

$=$ _____ + _____ + _____ + _____ + _____ + _____

2.10 Place the commas where they belong.

2 3 5 6 9

4 5 7 8

2 3 9 0 4 6

7 0 4 3 1 8



2.11 Write the number sentences in words.

a. $\frac{5}{6} + \frac{3}{6} = \frac{8}{6}$ _____

b. $\frac{6}{7} - \frac{4}{7} = \frac{2}{7}$ _____

c. $\frac{2}{9} + \frac{6}{9} = \frac{8}{9}$ _____

d. $\frac{11}{12} - \frac{1}{12} = \frac{10}{12}$ _____

2.12 Draw an illustration showing that $\frac{3}{5} + \frac{4}{5} = \frac{7}{5}$.

SELF TEST 2



2.01 Write the equivalent. (each answer, 1 point)

a. 1 foot = _____ inches

b. 1 gallon = _____ quarts

c. 1 yard = _____ feet

d. 1 pint = _____ ounces

e. 1 mile = _____ feet

f. 1 pound = _____ ounces

g. 1 pint = _____ cups

h. 1 peck = _____ quarts

i. 1 quart = _____ pints

j. 1 bushel = _____ pecks

2.02 What unit of measurement would you use for . . . (each answer, 1 point)

a. the height of a table? _____

b. how far to the nearest store? _____

c. the length of your foot? _____

d. flour to be added to a cake recipe? _____

e. juice in a container from the store? _____

2.03 Find the product. (each answer, 1 point)

$$\begin{array}{r} 2,346 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5,174 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3,081 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4,672 \\ \times 8 \\ \hline \end{array}$$

2.04 Write the answer to the facts. (each answer, 1 point)

$18 \div 6 =$ _____ because

$6 \times$ _____ $= 18$

$36 \div 9 =$ _____ because

$9 \times$ _____ $= 36$

2.05 Write 'how many' and then show the value. (2 points)

thousands			units		
hundreds	tens	ones	hundreds	tens	ones
536,294 = _____ + _____ + _____ + _____ + _____ + _____					
= _____ + _____ + _____ + _____ + _____ + _____					

2.06 Place the commas where they belong. (each answer, 1 point)

2 0 4 6 3 2

8 5 4 1 3

2.07 Write the number sentences in words. (each answer, 1 point)

a. $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$ _____

b. $\frac{7}{9} - \frac{5}{9} = \frac{2}{9}$ _____

2.08 Draw an illustration showing that $\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$. (1 point)



My score _____
Teacher check _____

III. PART THREE

Learn Box

I can read a calendar.
I can learn about perimeter and area.
I can add and subtract fractions.

You will need
a current calendar.



July						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		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		

3.1 Use a current calendar and calendar on this page to answer the questions.

- How many months in a year?
- How many weeks in a year?
- How many days in one week?
- How many days in this month?
- How many Mondays in this month?
- What day is the 18th?
- Does this month have a special day?
- Are there more Tuesdays or Fridays?

Use a reference book. Look for the meaning of *Leap Year*.

3.2 Match.



- | | | | |
|--------|------------------------------------|----|--------------|
| ___ a. | answer in multiplication | 1. | quotient |
| ___ b. | line that divides a fraction | 2. | multiply |
| ___ c. | number sentence with an equal sign | 3. | product |
| ___ d. | answer in division | 4. | denominator |
| ___ e. | number below line in a fraction | 5. | difference |
| ___ f. | to change from small to large | 6. | equation |
| ___ g. | answer in subtraction | 7. | fraction bar |
| ___ h. | to change from large to small | 8. | divide |

3.3 Draw lines to equal . . .

- a. $2\frac{1}{2}$ inches.
- b. $3\frac{1}{4}$ inches.
- c. $4\frac{3}{4}$ inches.

3.4 Multiply.

- | | | | | | |
|----|--|--|--|--|--|
| a. | $\begin{array}{r} 36 \\ \times 2 \\ \hline \end{array}$ | $\begin{array}{r} 57 \\ \times 6 \\ \hline \end{array}$ | $\begin{array}{r} 402 \\ \times 8 \\ \hline \end{array}$ | $\begin{array}{r} 315 \\ \times 5 \\ \hline \end{array}$ | $\begin{array}{r} 740 \\ \times 3 \\ \hline \end{array}$ |
| b. | $\begin{array}{r} 4,032 \\ \times 3 \\ \hline \end{array}$ | $\begin{array}{r} 5,164 \\ \times 5 \\ \hline \end{array}$ | $\begin{array}{r} 3,827 \\ \times 4 \\ \hline \end{array}$ | $\begin{array}{r} 2,635 \\ \times 7 \\ \hline \end{array}$ | |

You will need
unlined paper and a ruler.

Perimeter is the distance around the outside of a plane shape.

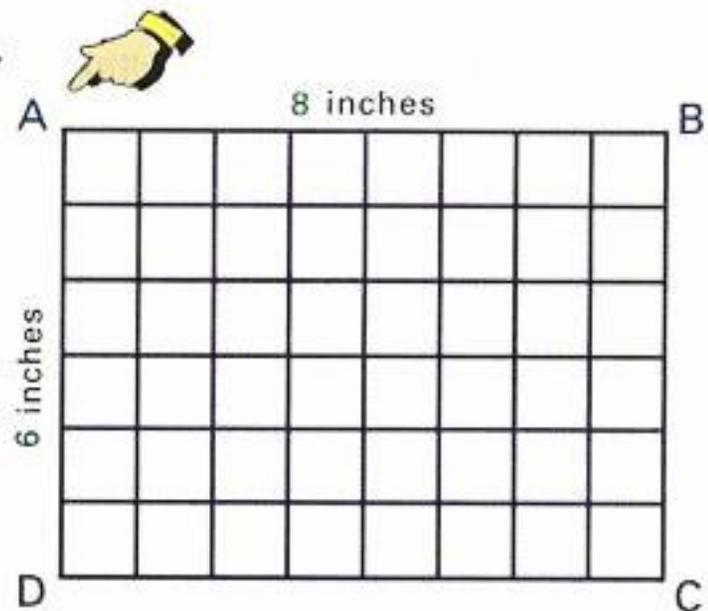
It is expressed in **linear units**.

Area is the measurement of a plane surface.

It is expressed in **square units**.

Put your finger at A on the rectangle.
Move your finger from A to B, B to C,
C to D, and D to A. You have moved your
finger around the perimeter of the rectangle.

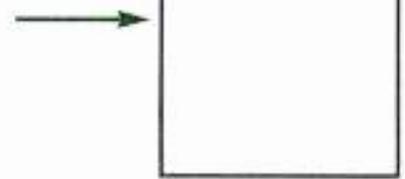
Now cover the rectangle with your hand.
You have covered the surface or area of
the rectangle.



We measure perimeter in linear units. This is a linear inch.
Use your ruler to measure the linear inch.



We measure surface in square units. This is a square inch.
Shade the square inch.



In the rectangular polygon in the example, each small square
represents a square inch.

The dimensions of rectangles and squares are length and width.

- 3.5 Starting at A, count the number of *linear* inches to
go completely around the outside of the rectangle.
Be sure you are counting *linear* inches.
(Always label your answer correctly.)

What is the perimeter of this rectangle?

- 3.6 Starting at A, count the number of *square* inches in
the rectangle. (Always label your answer correctly.)

What is the area of this rectangle?

Turn back to page 9 and review linear units.
Each linear unit has a corresponding square unit.

$$144 \text{ square inches} = 1 \text{ square foot}$$
$$9 \text{ square feet} = 1 \text{ square yard}$$

- 3.7 Use your paper and ruler. Have your teacher help you draw an illustration that represents a square foot and a square yard.
Do *linear* units and *square* units look the same? _____

When we measure perimeter and area, we do not want to count each unit.
There are special rules that make measuring perimeter and area easy.

The rule for perimeter is . . .

$$\text{Perimeter} = 2 \times \text{length} + 2 \times \text{width} \quad \text{or} \quad P = 2L + 2W$$

Look at the figure on page 18.
Substitute the measurement for length and width.
Multiply.
Add.

$$P = 2L + 2W$$
$$P = (2 \times 8) + (2 \times 6)$$
$$P = 16 + 12$$
$$P = 28 \text{ linear inches}$$

- 3.8 Is this answer the same as your answer to 3.5? _____

The rule for area is . . .

$$\text{Area} = \text{length} \times \text{width} \quad \text{or} \quad A = L \times W$$

Look at the figure on page 18.
Substitute the measurement for length and width.
Multiply.

$$A = L \times W$$
$$A = 8 \times 6$$
$$A = 48 \text{ square inches}$$

- 3.9 Is this answer the same as your answer to 3.6? _____

- 3.10 Find the perimeter and area of a rectangle with dimensions of 7 feet by 5 feet. Use the rules. *Answers must be labeled correctly.*

perimeter

area

a. _____

b. _____

3.11 Find the perimeter and area of a rectangle with dimensions of 9 feet by 4 feet. Use the rules. *Answers must be labeled correctly.*

perimeter

area

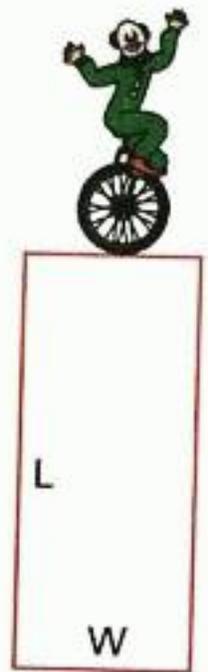
a. _____ b. _____

3.12 Find the perimeter and area of a rectangle with dimensions of 12 feet by 3 feet. Use the rules. *Answers must be labeled correctly.*

perimeter

area

a. _____ b. _____



3.13 Arrange in number order from smallest to largest.

464,346 64,363 6,363 46,463 604,640 4,663

3.14 Round each number. Add or subtract. Then find the real answer.

a.
$$\begin{array}{r} 785 \\ + 396 \\ \hline \end{array}$$

$$\begin{array}{r} 4,872 \\ + 6,249 \\ \hline \end{array}$$

$$\begin{array}{r} 35,673 \\ + 41,839 \\ \hline \end{array}$$



b.
$$\begin{array}{r} 642 \\ - 379 \\ \hline \end{array}$$

$$\begin{array}{r} 8,671 \\ - 5,482 \\ \hline \end{array}$$

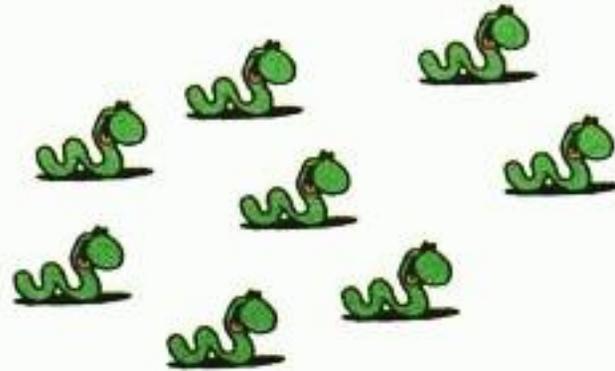
$$\begin{array}{r} 76,428 \\ - 40,937 \\ \hline \end{array}$$

3.15 Label the parts of the fraction.

b. _____ $\frac{7}{8}$ a. _____
 c. _____

3.16 When we add or subtract a fraction, we add or subtract the ... _____.

3.17 Circle the part of the object or set that represents $\frac{3}{8}$.



3.18 Add.

$\frac{3}{8}$	$\frac{2}{3}$	$\frac{5}{7}$	$\frac{4}{16}$	$\frac{3}{5}$	$\frac{9}{15}$
$+$	$+$	$+$	$+$	$+$	$+$
$\frac{5}{8}$	$\frac{2}{3}$	$\frac{1}{7}$	$\frac{5}{16}$	$\frac{4}{5}$	$\frac{4}{15}$
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

3.19 Subtract.

$\frac{8}{12}$	$\frac{9}{10}$	$\frac{3}{5}$	$\frac{11}{16}$	$\frac{5}{6}$	$\frac{3}{4}$
$-$	$-$	$-$	$-$	$-$	$-$
$\frac{3}{12}$	$\frac{4}{10}$	$\frac{2}{5}$	$\frac{5}{16}$	$\frac{2}{6}$	$\frac{2}{4}$
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SELF TEST 3



(each answer, 1 point)

3.01 Answer the questions.

- a. How many months in a year?
- b. How many weeks in a year?
- c. How many days in one week?

3.02 Draw lines to equal ...

- a. $2\frac{3}{4}$ inches.
- b. $4\frac{1}{4}$ inches.

3.03 Multiply.

$$\begin{array}{r} 83 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 254 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3,063 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5,694 \\ \times 5 \\ \hline \end{array}$$

3.04 Match.

- | | |
|---|-----------------|
| ___ a. distance around outside of plane shape | 1. quotient |
| ___ b. line that divides a fraction | 2. product |
| ___ c. number sentence with an equal sign | 3. perimeter |
| ___ d. answer in division | 4. numerator |
| ___ e. number above line in a fraction | 5. equation |
| ___ f. measurement of surface of plane shape | 6. fraction bar |
| ___ g. answer in multiplication | 7. area |

3.05 Use your ruler. Draw ...

a linear inch

a square inch

3.06 Write the rule to find the perimeter.

3.07 Write the rule to find the area.

3.08 Find the perimeter and area of a rectangle with dimensions of 8 feet by 5 feet. Use the rules. *Answers must be labeled correctly.*

perimeter

area

a. _____

b. _____

3.09 Solve.

$$\begin{array}{r} \frac{8}{14} \\ - \frac{3}{14} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{3}{5} \\ + \frac{4}{5} \\ \hline \end{array}$$

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



My score _____
Teacher check _____

IV. PART FOUR

Learn Box

I can solve missing number problems.
I can read Roman numerals.
I can learn a new way to divide.

An **equation** is a number sentence that contains an equal sign. The equal sign tells us that the numbers on both sides of the equation are equal to each other.

We can add, subtract, or multiply numbers on both sides of the equation. If we complete the operations with the same number, both sides will remain equal.

This pattern helps us solve missing number problems. Review these examples.

Example

a.

$$\begin{aligned} N + 6 &= 10 \\ N + 6 (-6) &= 10 (-6) \\ N &= 4 \end{aligned}$$

b.

$$\begin{aligned} 5 + 7 + 3 + N &= 23 \\ 15 + N &= 23 \\ 15 + N (-15) &= 23 (-15) \\ N &= 8 \end{aligned}$$

c.

$$\begin{aligned} N - 45 &= 93 \\ N - 45 (+45) &= 93 (+45) \\ N &= 138 \end{aligned}$$

Check:

$4 + 6 = 10$

$5 + 7 + 3 + 8 = 23$

$138 - 45 = 93$

4.1 In Example (a.), to find the answer we must...

_____ the number _____ from both sides of the equation.

4.2 In Example (b.), to find the answer we must first add _____, _____, and _____.

Then, _____ the number _____ from both sides of the equation.

4.3 In Example (c.), to find the answer, we must...

_____ the number _____ to both sides of the equation.

4.4 Follow the steps to solve these missing number problems. Check.

a. $N + 134 = 379$

b. $N - 409 = 732$

c. $32 + 46 + 79 + N = 185$

d. $N - 636 = 852$

Review Example (b.). Some problems may require more than one step to find an answer. In this example, 5, 7, and 3 were grouped and added together. Then, 15 was subtracted from both sides of the equation.

This method is called **grouping**.

Parentheses are used to group the numbers. $(5 + 7 + 3) + N = 23$

We always begin by solving the part of the problem that is in parentheses.

- 4.5** George had 25 rocks in his rock collection. He found 6 more while he was on vacation. When he returned home, he decided to share 8 of his collection with his friend Jim. How many rocks did he have left?



Using the method called grouping, we would write ...
Add the numbers in the parentheses first ...

$$(25 + 6) - 8 = N$$

$$31 - 8 = N$$

Write the answer.

$$\underline{\hspace{2cm}} = N$$

- 4.6** Solve these problems using the method called grouping. Always begin by finding the answer to the part of the problem that is in parentheses.

a. $46 + (8 - 3) = N$

$N = \underline{\hspace{2cm}}$

b. $(2 + 4) \times (3 + 5) = N$

$N = \underline{\hspace{2cm}}$

c. $(6 + 3) \times (12 - 6) = N$

$N = \underline{\hspace{2cm}}$

d. $(16 - 12) \div 2 = N$

$N = \underline{\hspace{2cm}}$

- 4.7** Write this problem in grouping and solve. Jane bought 6 apples at 18¢ and 5 oranges at 12¢. How much did she spend altogether?



Division problems may be written . . .

$12 \div 3 = 4$ 12 is the dividend.
 3 is the divisor.
 \div is the division sign.
 4 is the quotient.

$$\begin{array}{r} 4 \\ 3 \overline{)12} \end{array}$$
 12 is the dividend.
 3 is the divisor.
 $\overline{)}$ is the division sign.
 4 is the quotient.

Remember that multiplication and division make a family of facts.
Use the multiplication facts you have learned to answer the division facts.

4.8 Find the quotient.

a.

$2 \overline{)4}$

$2 \overline{)6}$

$2 \overline{)8}$

$4 \overline{)8}$

$3 \overline{)9}$

$2 \overline{)10}$

b.

$5 \overline{)10}$

$2 \overline{)12}$

$3 \overline{)12}$

$2 \overline{)14}$

$7 \overline{)14}$

$3 \overline{)15}$

c.

$5 \overline{)15}$

$2 \overline{)16}$

$4 \overline{)16}$

$8 \overline{)16}$

$2 \overline{)18}$

$8 \overline{)64}$

d.

$6 \overline{)18}$

$9 \overline{)18}$

$2 \overline{)20}$

$4 \overline{)20}$

$5 \overline{)20}$

$3 \overline{)21}$

e.

$7 \overline{)21}$

$3 \overline{)24}$

$4 \overline{)24}$

$6 \overline{)24}$

$5 \overline{)25}$

$3 \overline{)27}$

f.

$9 \overline{)27}$

$4 \overline{)28}$

$7 \overline{)28}$

$5 \overline{)30}$

$6 \overline{)30}$

$4 \overline{)32}$

g.

$8 \overline{)32}$

$5 \overline{)35}$

$7 \overline{)35}$

$4 \overline{)36}$

$6 \overline{)36}$

$9 \overline{)36}$

h.

$5 \overline{)40}$

$8 \overline{)40}$

$6 \overline{)42}$

$5 \overline{)45}$

$9 \overline{)45}$

$6 \overline{)48}$

i.

$8 \overline{)48}$

$7 \overline{)49}$

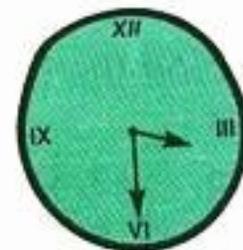
$6 \overline{)54}$

$9 \overline{)54}$

$7 \overline{)56}$

$8 \overline{)56}$

The digits that you have learned about in the LIFE PACs are called **Arabic** numerals. **Roman** numerals are also used. They may be on public buildings, clock faces, number chapters in books, or to tell the year something was made.



The Roman numerals correspond to Arabic numerals in this way.

I = 1 V = 5 X = 10 L = 50 C = 100 D = 500 M = 1000

Roman numerals are placed next to each other and then added.

VI (V + I = 5 + 1 = 6) XVII (X + V + I + I = 10 + 5 + 1 + 1 = 17)

Fours and nines are the only Roman numerals formed by subtraction. The Roman numeral is placed before the numeral it is to be subtracted from.

IV (V - I = 5 - 1 = 4) XIX (X + X - I = 10 + 10 - 1 = 19)
 XL (L - X = 50 - 10 = 40) CM (M - C = 1000 - 100 = 900)

4.9 Write these Roman numerals as Arabic numerals.
 Use the method shown above.

a. VII _____ = _____ LXVI _____ = _____
 b. IX _____ = _____ DX _____ = _____
 c. XXIX _____ = _____ MDXX _____ = _____

Arabic numerals can be changed to Roman numerals.

15 (10 + 5 = X + V = XV) 24 (10 + 10 + 5 - 1 = X + X + V - I = XXIV)

4.10 Write these Arabic numerals as Roman numerals.
 Use the method shown above.

a. 23 _____ = _____ 84 _____ = _____
 b. 48 _____ = _____ 117 _____ = _____

4.11 Find the difference.

a.
$$\begin{array}{r} 9,483 \\ - 4,191 \\ \hline \end{array}$$

$$\begin{array}{r} 4,968 \\ - 2,382 \\ \hline \end{array}$$

$$\begin{array}{r} 5,495 \\ - 3,723 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 8,355 \\ - 3,724 \\ \hline \end{array}$$

$$\begin{array}{r} 7,488 \\ - 4,863 \\ \hline \end{array}$$

$$\begin{array}{r} 9,593 \\ - 6,642 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 4,398 \\ - 2,629 \\ \hline \end{array}$$

$$\begin{array}{r} 6,350 \\ - 2,173 \\ \hline \end{array}$$

$$\begin{array}{r} 8,675 \\ - 4,898 \\ \hline \end{array}$$

4.12 Find the product.

a.
$$\begin{array}{r} 64 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 5 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 363 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 772 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 644 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 532 \\ \times 9 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 4,168 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3,972 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6,423 \\ \times 8 \\ \hline \end{array}$$

4.13 Patterns help us solve problems in mathematics.

We find a pattern. We find the rule that applies. We solve the problem.
Write or draw what comes next. Explain the pattern.

a. $7 \times 4 = 28$, $4 \times 7 = 28$, $28 \div 4 = 7$, ...

b. $3 < 6$, $4 < 8$, $5 < 10$, ...

c. $\frac{1}{4}$  , $\frac{2}{4}$  , $\frac{3}{4}$  , ...

d. 200,002 , 200,001 , 200,000 , ...

e. 4 , 12 , 6 , 18 , 9 , ...

4.14 Patterns also help us predict the probability of an event.

Tell the probability (good, maybe, poor) of these things happening.
Explain the pattern that you used for your answer.

a. The sun will rise tomorrow. Probability _____



Why? _____



b. You will take a trip in a plane. Probability _____



Why? _____

c. You will eat lunch at 9:00 PM. Probability _____



Why? _____

4.07 Find the product. (each answer, 1 point)

$$\begin{array}{r} 532 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 308 \\ \times 9 \\ \hline \end{array}$$

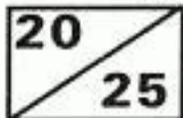
$$\begin{array}{r} 635 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1,905 \\ \times 5 \\ \hline \end{array}$$

4.08 Patterns help us solve problems in mathematics.
We find a pattern. We find the rule that applies. We solve the problem.
Write or draw what comes next. Explain the pattern. (each answer, 1 point)

a. $3 \times 6 = 18$, $6 \times 3 = 18$, $18 \div 6 = 3$, ...

b. $2 < 6$, $3 < 9$, $4 < 12$, ...



My score _____
Teacher check _____

V. PART FIVE

Learn Box

I can read and write
about the things I have learned.
I can learn about picture graphs.



- 5.1 Perimeter is the distance around the outside of a plane shape.

What rule do we use to find perimeter?



- 5.2 Area is the measurement of a plane surface.

What rule do we use to find area?

- 5.3 Draw a rectangle in the space below. Show dimensions of 5 feet by 3 feet.

a. What is the perimeter of the rectangle?

b. What is the area of the rectangle?

c. Review the rectangle shown on page 18. Draw line segments on the rectangle you have just made illustrating the square feet. Count the number of squares you have made.

Is it the same number as your answer to 5.3(b.) ?

- 5.4 Write an ordinal number. What grade are you in?

- 5.5 Write in words. 846,092

5.6 $7 \times N = 42$ $N =$ _____ $6 \times N = 30$ $N =$ _____ $9 \times N = 63$ $N =$ _____

- 5.7 Round to the nearest thousands.

$7,543 =$ _____

- 5.8 235 is the multiplicand. 4 is the multiplier. What is the product?

5.9 Draw an example of a(n) a. line b. line segment c. ray, and d. angle. Use the symbols learned in LIFE PAC 404 to label the drawings.

a.

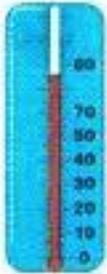
b.

c.

d.

5.10 The following problems are most easily solved by using grouping. Include parentheses to write the problem. Find the solution.

- a. The temperature at noon was 78° . By 2:00 PM, it rose 6° , but at 5:00 PM, it had fallen by 4° . What was the temperature at 5:00 PM?



N = _____

- b. Laura worked 4 hours babysitting at \$2.25 per hour. When she was done, she gave her sister 75¢ that she had borrowed from her. How much money did she have left?



N = _____

- c. Mr. Meyers paid two students \$5.60 each for working after school. If he started with \$15.00, how much did he have left?



N = _____

- d. Jeff was building a doll house for his sister. He needed 6 pieces of wood one foot long and 8 pieces of wood fourteen inches long. How much wood did he need altogether? (Hint: Your answer should be in inches.)



N = _____

5.11 Jim's new aquarium was a gallon size, but Jim only had a quart measurement. How many quarts does he need to fill his aquarium?



5.12 How many digits in the number 425,786?

5.13 John and his father were on a fishing trip. They drove 45 miles to a town near the lake to buy bait. They needed to drive another 7 miles to reach the fishing spot. How many miles did they drive altogether?

5.14 Mark ran to the end of the block and back 3 times. It is 34 yards to the end of the block.

a. Using line segments and end points, make a drawing of the path that Mark followed. Write the measurements on the line segments.



b. How far did Mark run altogether?

c. Express your answer to (b.) in feet.

5.15 Is a piece of paper a plane shape or solid shape?

5.16 Is a nickel in the shape of an oval, square, or circle?

5.17 Fill in the missing numerators. $\frac{1}{7}$, $\frac{2}{7}$, $\frac{\quad}{7}$, $\frac{4}{7}$, $\frac{\quad}{7}$, $\frac{6}{7}$, $\frac{\quad}{7}$

5.18 Write the missing number. 56, 49, 42, 35, _____, 21, 14, 7

5.19 Round 87 to the nearest tens.

5.20 Whenever a number is multiplied by zero, the answer is always _____.

5.21 Circle the correct symbol. 2,345 (>, <) 2,347 86,442 (>, <) 86,042

5.22 Write a number with 5 in the ones' place, 6 in the tens' place and 9 in the hundreds' place.

5.23 Write 44 in Roman numerals. _____

5.24 Write XXXV in Arabic numerals. _____

5.25 If you measure the surface of a floor, would your measurement be in linear feet or square feet? _____

5.26 Using cross multiplication, tell whether these fractions are equal. $\frac{5}{6}$ and $\frac{10}{12}$ _____

5.27 Mother cut a pie into six pieces. She gave two pieces to Joe and one piece to Mary.



- a. What would be the denominator of a fraction describing the pieces of pie? _____
- b. Write as a fraction the amount that mother gave to Joe. _____
- c. Write as a fraction the amount that mother gave to Mary. _____
- d. Write as a fraction the total amount that mother gave to both Joe and Mary. _____

5.28 Write the number 385,205 in expanded form.

5.29 Given the numbers 4,849 and 3,642, what would you *estimate* the difference to be? _____

5.30 If the addends are 34 and 26, would the answer be called the product, difference, or sum? _____

5.31 Write the whole number 1 as a fraction with a denominator of 6. _____

5.32 What is the product of 9 and 6? _____

5.33 $467 + 3,280 + 59 + 364 =$ _____

5.34 $16 \div 4 =$ _____ $24 \div 3 =$ _____ $14 \div 2 =$ _____

$20 \div 5 =$ _____ $42 \div 7 =$ _____ $36 \div 9 =$ _____

5.35 Write this fraction in words. $\frac{5}{8}$ _____

5.36 How many nickels in a quarter? _____ a dollar? _____

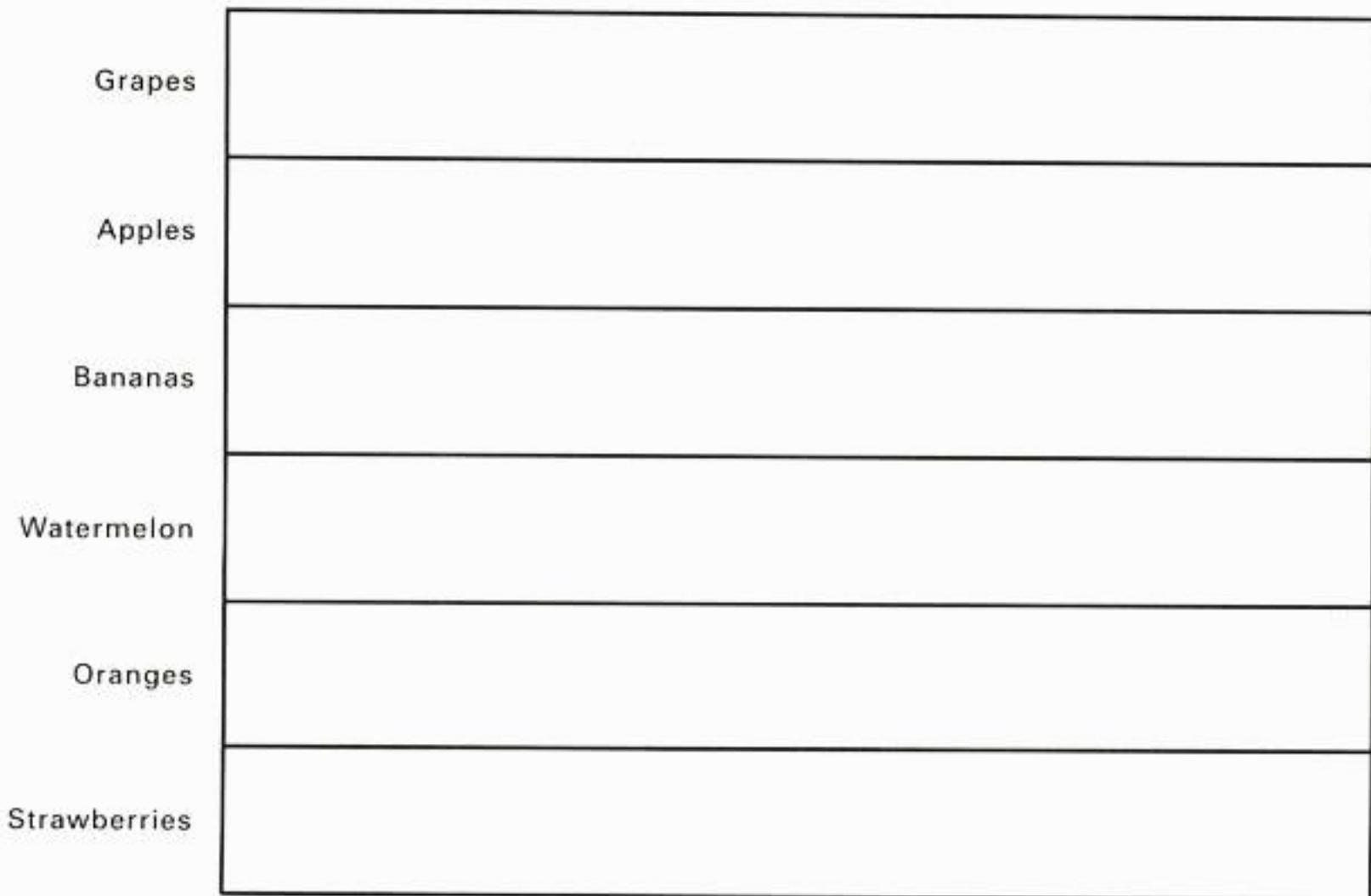
5.37 Mary and her mother were buying material for a new dress. The pattern called for 3 yards of material. How many inches would that be? _____

5.38 Dan and Eve have an assignment to make a picture graph. They have kept a record of their friends' favorite fruits. Read the data that Ted and Lisa have collected. Draw pictures of each type of fruit on the graph to show the data. Each drawing (picture of fruit) represents one student.

3 students liked grapes
8 students liked bananas
6 students liked oranges

3 students liked apples
5 students liked watermelons
7 students like strawberries

Favorite Fruit



SELF TEST 5



(each answer, 1 point)

5.01 What rule do we use to find

- a. perimeter? _____ b. area? _____

5.02 Draw a rectangle in the space below. Show dimensions of 6 feet by 4 feet.

- a. What is the perimeter of the rectangle? _____
b. What is the area of the rectangle? _____

5.03 Round to the nearest thousands. $7,054 =$ _____ $6,437 =$ _____

5.04 Marcia and Jackie decided to walk for exercise. Marcia walked 2 miles five days a week and Jackie walked 1 mile seven days a week. How many miles did they walk altogether?

- a. Write the problem using the grouping method.

b. Write the answer the problem. $N =$ _____

5.05 Write 84 in Roman numerals. _____

5.06 What unit of measurement would you use, to describe the distance an airplane flies? _____

5.07 Write the answer. $(6 + 3) \times 0 = N$ $N =$ _____

5.08 Is a mirror hanging on a wall a plane shape or a solid shape? _____

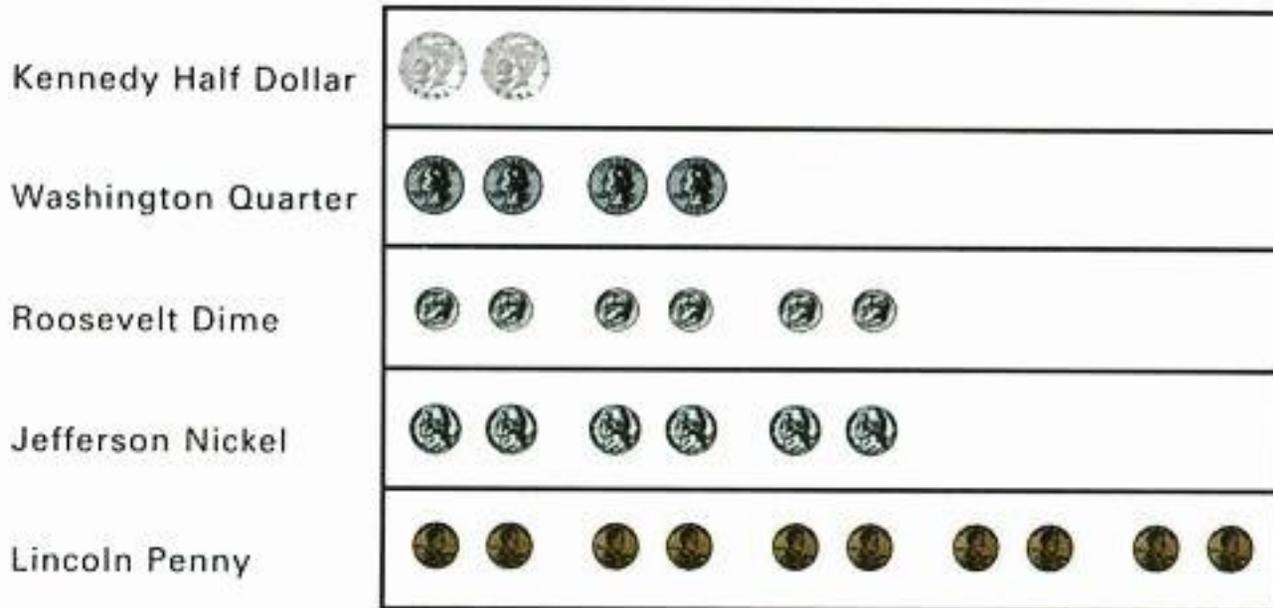
SELF TEST 5 (cont.)

5.09 Write a number with 7 in the tens' place, 8 in the hundreds' place, 5 in the ones place, and 6 in the thousands' place. _____

- 5.010** Dad had a bag of 16 peppermint sticks. He gave 6 pieces to Rebecca and 6 pieces to Jennifer.
- What would be the denominator of a fraction describing all of the candy? _____
 - Write as a fraction the amount that dad gave to Rebecca. _____
 - Write as a fraction the amount that dad gave to Jennifer. _____
 - Write the total amount that dad had left after he gave the candy to Rebecca and Jennifer. _____

5.011 Read the graph and answer the questions.

Tom's Coin Collection



- The graph about Tom's coin collection is an example of a _____ graph.
- List the number of coins in the collection.

Roosevelt Dime _____ Jefferson Nickel _____ Lincoln Penny _____

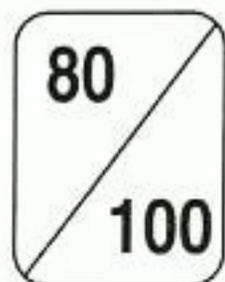


My score _____
Teacher check _____

MATHEMATICS

4 0 5

LIFEPAC TEST



Name _____

Date _____

Score _____

MATHEMATICS 405: LIFE PAC TEST

Each numbered answer equals 4 points.

1. Complete the families of addition and subtraction facts.

a. $3 + 4 = \underline{\quad}$ b. $4 + 3 = \underline{\quad}$ c. $\underline{\quad} - 3 = 4$ d. $\underline{\quad} - 4 = 3$

2. Complete the families of multiplication and division facts.

a. $3 \times 4 = \underline{\quad}$ b. $4 \times 3 = \underline{\quad}$ c. $\underline{\quad} \div 4 = 3$ d. $\underline{\quad} \div 3 = 4$

Write the family of facts for:

3. a. $6 \times 9 = \underline{\quad}$ b. $\underline{\quad}$ c. $\underline{\quad}$ d. $\underline{\quad}$

4. a. $5 \times 7 = \underline{\quad}$ b. $\underline{\quad}$ c. $\underline{\quad}$ d. $\underline{\quad}$

5. a. $8 \times 3 = \underline{\quad}$ b. $\underline{\quad}$ c. $\underline{\quad}$ d. $\underline{\quad}$

6. Write the equivalent.

1 foot = $\underline{\quad}$ inches 1 pint = $\underline{\quad}$ cups 1 gallon = $\underline{\quad}$ quarts

7. What unit of measurement would you use to measure ...

the top of a desk? $\underline{\quad}$

water in a glass? $\underline{\quad}$

A rectangle has dimensions of 7 feet by 4 feet.

8. What is the rectangle's perimeter measurement? $\underline{\quad}$

9. What is the rectangle's area measurement? $\underline{\quad}$

10. Write the equivalent number in Arabic or Roman numeral.

XXIV _____

68 _____

11. Solve the missing numbers problems.

$$(7 \times 2) - 3 = N \quad N = \underline{\hspace{2cm}}$$

$$3 + (6 \times 2) = N \quad N = \underline{\hspace{2cm}}$$

Mary baked 4 dozen cookies on Thursday and Jean baked 3 dozen on Friday. They sold 76 cookies on Saturday. How many cookies did they have after the sale.

12. a. Write the missing number problem.

b. What is the answer to the problem?

N = _____

13. Jim needed a board three yards long for a table he was building. If he only had a 12 inch ruler, how many inches would he need to measure for the three yards?

14. What unit would you use to measure distance from New York to California?

15. What is the product of 42 and 7?

Solve the problems.

16.
$$\begin{array}{r} 857 \\ + 736 \\ \hline \end{array}$$

17. $7,326 + 45 = \underline{\hspace{2cm}}$

18.
$$\begin{array}{r} 5,267 \\ + 6,795 \\ \hline \end{array}$$

Solve the problems.

19.
$$\begin{array}{r} 6,438 \\ - 2,159 \\ \hline \end{array}$$

20. $4,405 - 268 = \underline{\hspace{2cm}}$

21.
$$\begin{array}{r} 253 \\ \times 7 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 368 \\ \times 7 \\ \hline \end{array}$$

23. $3 \overline{)12}$

$8 \overline{)40}$

$9 \overline{)81}$

$6 \overline{)42}$

24. $8 \overline{)56}$

$9 \overline{)45}$

$6 \overline{)54}$

$5 \overline{)35}$

25. $72 \div 9 = \underline{\hspace{2cm}}.$

$25 \div 5 = \underline{\hspace{2cm}}.$

$36 \div 4 = \underline{\hspace{2cm}}.$

$6 \div 3 = \underline{\hspace{2cm}}.$