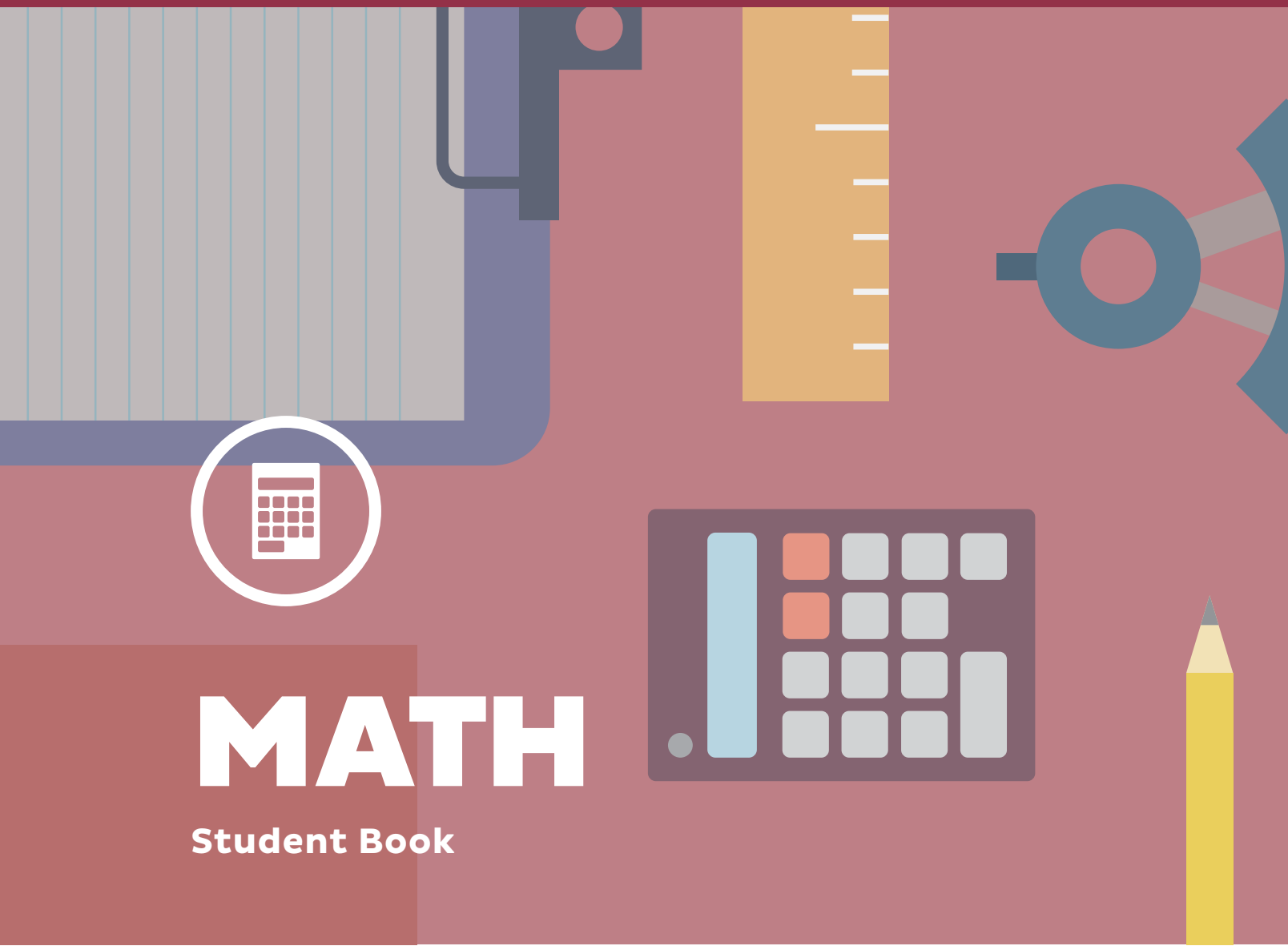
LIFEPAC®



MATH

Student Book

4th Grade | Unit 5

Alpha Omega
PUBLICATIONS

MATH 405

DIVISION AND MEASUREMENTS

Author:
Carol Bauler, B.A.

Editor:
Alan Christopherson, M.S.

Media Credits:
Page 3: © Kevin Miller, iStock, Thinkstock; **12:** © Makhnach_M, iStock, Thinkstock; **13:** © seregam, iStock, Thinkstock; **14:** © Darren Whittingham, Hemera, Thinkstock; **20:** © WestLight, iStock, Thinkstock; **29:** © uptonpark, iStock, Thinkstock; **31:** © RusN, iStock, Thinkstock; **31, 44:** © KakigoriStudio, iStock, Thinkstock; **36:** © bennyb, iStock, Thinkstock; **39:** © Andreas Guskos, iStock, Thinkstock; **48:** © aleksandr ugorenkov, iStock, Thinkstock; Daniel R. Burch, iStock, Thinkstock; United States coin images from the United States Mint.

Alpha Omega
PUBLICATIONS

804 N. 2nd Ave. E.
Rock Rapids, IA 51246-1759

1. DIVISION, ADDITION, SUBTRACTION, MULTIPLICATION

Objectives

Read these objectives. When you have completed this section, you should be able to:

- Solve division problems.
- Review addition, subtraction, and multiplication.

Division means to separate into equal parts.

Addition, subtraction, and multiplication have facts that you have learned. Division also has facts to learn.

You will need objects for counting.

1.1 Use 12 objects to make 3 equal groups.

a. How many objects are there in each group? _____

b. We can say that 12 divided by 3 is equal to _____ .

Use 12 objects to make 4 equal groups.

c. How many objects are there in each group? _____

d. We can say that 12 divided by 4 is equal to _____ .

Division problems have names.

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

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

Complete this activity.

1.2 Use 15 objects to make 5 equal groups.

a. How many objects are there in each group? _____

b. We can say that $15 \div 5 =$ _____ .

Use 15 objects to make 3 equal groups.

c. How many objects are there in each group? _____

d. We can say that $15 \div 3 =$ _____ .

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.

Complete these activities.

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

a. 2, 4, 8 $2 \times 4 =$ _____ $4 \times 2 =$ _____ $8 \div 4 =$ _____ $8 \div 2 =$ _____

b. 3, 7, 21 $3 \times 7 =$ _____ $7 \times 3 =$ _____ $21 \div 3 =$ _____ $21 \div 7 =$ _____

c. 5, 8, 40 $5 \times 8 =$ _____ $8 \times 5 =$ _____ $40 \div 5 =$ _____ $40 \div 8 =$ _____

d. 6, 9, 54 $6 \times 9 =$ _____ $9 \times 6 =$ _____ $54 \div 6 =$ _____ $54 \div 9 =$ _____

e. 7, 8, 56 $7 \times 8 =$ _____ $8 \times 7 =$ _____ $56 \div 7 =$ _____ $56 \div 8 =$ _____

f. 4, 5, 20 $4 \times 5 =$ _____ $5 \times 4 =$ _____ $20 \div 4 =$ _____ $20 \div 5 =$ _____

1.4 Write the number in digits. Circle it in the puzzle. (The answers may appear in the puzzle horizontally, vertically, or diagonally.)

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 _____

2	7	6	3	9
4	8	0	2	5
9	3	8	7	6
4	1	2	5	9
3	8	0	1	6

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.

```
  2 2
  367
×   4
-----
1,468
```

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.

Complete this activity.

1.5 Find the products. Carry when necessary.

a.

342	436	218	723
× 2	× 3	× 4	× 2

b.

525	483	242	528
× 3	× 6	× 5	× 4

c.

235	736	624	416
× 8	× 4	× 9	× 5

d.

334	117	236	582
× 9	× 7	× 3	× 6

To check problems in ...

addition ...

	982
	236
Add down.	+ 746
Add up.	**982**

subtraction ...

Subtract.	**835**
Add the difference	− 476
to the subtrahend.	+ 359
The answer is the minuend.	**835**

Complete these activities.

1.6 Complete the problems. Check your answers.

a.

632	847	526
+ 324	+ 332	+ 537

b.

1,763	6,892	9,420
+ 2,275	+ 2,163	+ 8,632

c.

963	850	695
− 241	− 325	− 249
+	+	+

d.

4,968	5,398	7,685
− 2,382	− 2,629	− 4,896
+	+	+

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 ÷ 3	_____	2 × 1	37 + 8	_____	42 – 6

1.8 Write the money in digits. Solve the problem.

3 quarters	$		4 half dollars	$	
2 dimes			1 quarter		
3 pennies	+	_____	2 nickels	+	_____
	$			$	

2 quarters	$		7 dimes	$	
4 dimes			3 nickels		
5 nickel	+	_____	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 correct time for each clock.




_____ _____ _____ _____

1.15 Kenneth finished his volleyball game at 4:30. Was this A.M. or P.M.?

_____

1.16 Write these numbers in 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.

_____

Review the material in this section to prepare for the Self Test. The Self Test will check your understanding of this section. Any items you miss on this test will show you what areas you will need to restudy in order to prepare for the unit test.

SELF TEST 1

Complete these activities (each answer, 1 point unless otherwise noted).

1.01 Write the correct terms.

$42 \div 7 = 6$

In this problem, 42 is the _____ , 7 is the _____ ,

and 6 is the _____ .

1.02 Write the multiplication and division family of facts for ...

7, 5, 35 _____ _____ _____ _____

1.03 Write the numbers in digits.

a. fifty-four thousand, seven hundred eight _____

b. one hundred twenty thousand, forty-nine _____

1.04 Find the product.

322	526	483	283
× 3	× 4	× 6	× 9

1.05 Write the money in digits. Solve.

2 quarters	$	4 dimes	$
3 dimes		5 nickels	
1 nickel	+ _____	8 pennies	+ _____
	$		$

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

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

_____ , _____ , _____ , ...

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

_____ , _____ , _____ , ...

1.07 Write the time on the clock.




_____ _____ _____ _____

1.08 Jim finished his math assignment at 2:00. Was this A.M. or P.M.?

_____

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

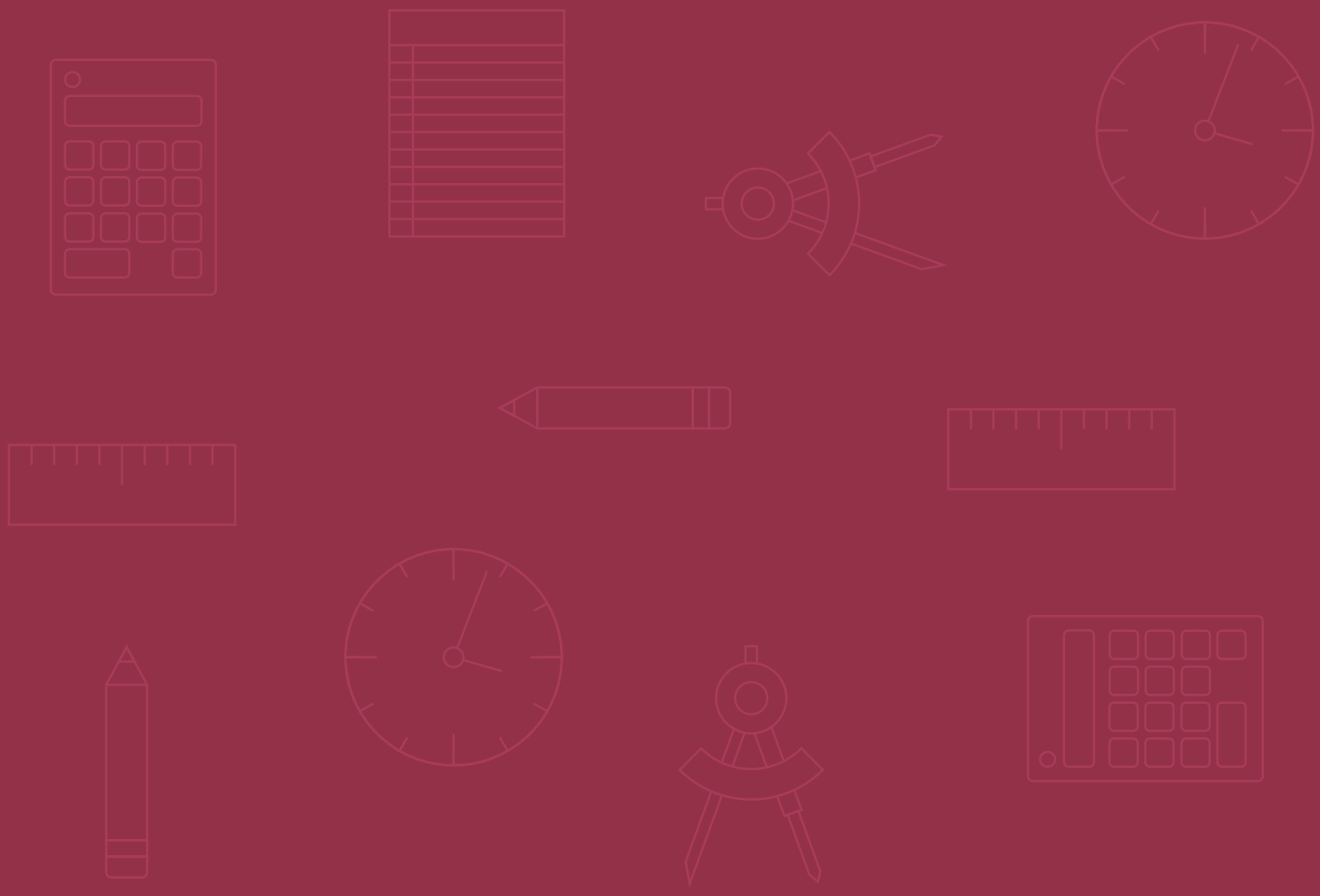
293,467 923,467 423,967 342,776 324,776 293,647

_____ _____ _____ _____ _____ _____

Teacher check: Initials _____

Score _____ Date _____

20/25



MAT_Gr3-5

Alpha Omega
PUBLICATIONS

804 N. 2nd Ave. E.
Rock Rapids, IA 51246-1759

800-622-3070
www.aop.com

MAT0405 – Jan '16 Printing

ISBN 978-0-86717-455-7

9 780867 174557