# **TEACHER GUIDE**

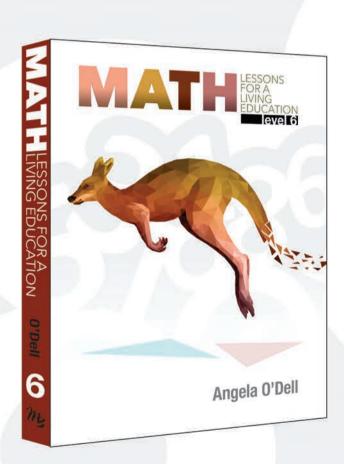
Includes Student Quizzes

Weekly Lesson Schedule
Quizzes
Colutions Manual

Level 6

Math





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Weekly Lesson Schedule
Quizzes
Solutions Manual

Level 6

Math

# Math Lessons for a Living Education: Level 6



First printing: May 2017

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Master Books<sup>®</sup>, P.O. Box 726, Green Forest, AR 72638

Master Books<sup>®</sup> is a division of the New Leaf Publishing Group, Inc.

ISBN: 978-1-68344-085-7

ISBN: 978-1-61458-599-2 (digital)

#### Printed in the United States of America

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Best books ever. Their illustrations are captivating and content amazing!

—Kathy  $\star\star\star\star\star$ 

# AffordableFlexibleFaith Building





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#### **Author Bio:**

As a homeschooling mom and author, **Angela O'Dell** embraces many aspects of the Charlotte Mason method, yet knows that modern children need an education that fits the needs of this generation. Based upon her foundational belief in a living God for a living education, she has worked to bring a curriculum that will reach deep into the heart of home-educated children and their families. She has written over 20 books, including her history series and her math series. Angela's goal is to bring materials that teach and train hearts and minds to find the answers for our generation in the never changing truth of God and His Word.

#### **Using This Course**

**Features:** The suggested weekly schedule enclosed has easy-to-manage lessons that guide the reading, worksheets, and all assessments. The pages of this guide are perforated and three-hole punched so materials are easy to tear out, hand out, grade, and store. Teachers are encouraged to adjust the schedule and materials needed in order to best work within their unique educational program.

**Lesson Scheduling:** Students are instructed to read the pages in their book and then complete the corresponding section provided by the teacher. Assessments that may include worksheets, activities, quizzes, and tests are given at regular intervals with space to record each grade. Space is provided on the weekly schedule for assignment dates, and flexibility in scheduling is encouraged. Teachers may adapt the scheduled days per each unique student situation.

Approximately 30 minutes per day, five days a week, for 36 weeks
Quizzes are included to help reinforce learning and provide assessment opportunities
Worksheets are included in the student book for each section
Designed for grade 6 in a one-year math course

#### **Course Description**

Welcome to the sixth course in the **Math Lessons for a Living Education** series! This math series is based on these unwavering realities: *God does not separate our life lessons into subjects*; everything touches something else. Likewise, His creation is woven together as a multifaceted, multi-dimensional display of His ingenious creativity. Any given element of the universe that He has created is fascinating to explore. You are challenged to look up and out in this study of mathematics. This course will help students review and master important skills as they prepare to move into more advanced coursework. Designed to present math concepts in the context of real life, the student learns to apply the rules and techniques to solving everyday problems.

#### **Course Objectives:** Students completing this course will

- ✓ Investigate math through developing critical thinking skills
- → Become familiar with whole numbers, averaging, rounding, and fractions
- ✓ Identify decimal basics and using decimals in the real world
- ✓ Learn how to work with percentages in the real world
- ✓ Study basics of geometry from pairs to polygons
- ✔ Develop maps, graphs and charts, units of measure, and more.

#### To the teacher: Mathematics and God's relational character

God teaches us through relationships. He is the One who set the example for this principle, using the perfect relationship between the members of the Trinity. He wants a relationship with us (John 3:16). Our children need a good relationship with us — not just for the sake of that relationship, but to lead them to Jesus. We cannot save our children's souls, but our relationship with our children can build trust and lead them to the One who can. Our children need to know that everything they can learn about the world around them is already known by God.

Think about this: the Alpha and the Omega, the Beginning and the End spoke, and His words created, and carried the power to set in motion everything in the world. God, the supreme architect, sent His words into the dark void and created the intricate, tiniest, most minute building blocks of matter, and then He taught them the secrets that keep them joining and bonding and creating larger building

blocks. And in the mix of all of this, He used the part of His wisdom and character that we humans call math. Psalm 19:1 says, "The heavens proclaim the glory of God. The skies display His craftsmanship."

Since God created it, math is a reflection of His character. God is absolute, consistent, and unchanging. No matter how many times His character and promises are tested, they come out true. As we learn about His creation (including operations with numbers!), our faith in His unwavering faithfulness is strengthened.

Those of us who are His children can come and ask for wisdom. I hope you have chosen to accept Jesus as your Savior and Friend. If you have, you have the promise that God will help you and give you wisdom (James 1:5). "Fear of the Lord is the beginning of wisdom" (Prov. 9:10). This means that you can ask Him for help with learning!

#### **Math Level 6**

Although this course was written mostly for the student, the story segments help the teacher build/strengthen a relationship with each student. The storyline of *Math Lessons for a Living Education Book 6* is not merely written to introduce math concepts; it is meant to bring the element of character and relationship to the study of math. Children learn best when they can learn through relationship. The story in this course is prayerfully crafted to reach into many issues that children this age are facing . . . the question of a personal faith in God, the question of trust in God's goodness even in the midst of hardship, the decision of letting God use pain for their good, etc. Read the story together, knowing that it is our tendency to push our children into independent learning at this age. Although a certain amount of independence is important, it is also extremely important that we maintain an element of closeness. **Our children need contact with us more at this age than almost at any other time. Stay close. Stay plugged in. Stay involved.** 

- The concepts of math are a conversation between your student and the text. This Course is meant to grow your child's faith in God, critical thinking ability, and confidence in their God-given ability.
- Quiz note: If you have used the previous courses in this series, you are aware that they contain very few quizzes or tests. This is because they are written in such a way that your child is consistently showing you what they know. Book 6 is also written in this way, BUT, because quiz and test taking is a skill that they need in life, they have been added in this teacher guide. If you, as the teacher, do not want your child to take every single lesson quiz, simply use the lesson practice and review. You decide what your student needs and adjust this course to fit them. Please also note that lesson 22 of this course is ten days worth of work on some additional, rather advanced concepts. Please preview this lesson and read the note at the beginning of it. Also note that there is an optional, but highly recommended, two-day student presentation at the end of the book. You may want to tell your student about it, so he or she can be thinking on what to present.

**Note**: There is a complete list of supplies in the student book.

#### First Semester Suggested Daily Schedule

Date	Day	Assignment	Due Date	$\checkmark$	Grade
		First Semester-First Quarter			
	Day 1	Read Lesson 1: Working with Whole Numbers Pages 7-9 • Math Level 6 Student Book • (ML6) Complete Lesson 1 Exercise 1 • Pages 10-12 • (ML6)			
Week 1	Day 2	Complete Lesson 1 Exercise 2 • Page 13 • (ML6)			
	Day 3	Complete Lesson 1 Exercise 3 • Pages 14-15 • (ML6)			
	Day 4	Complete Lesson 1 Exercise 4 • Pages 16-17 • (ML6)			
	Day 5	Complete Lesson 1 Exercise 5 • Page 18 • (ML6)			
	Day 6	Complete Lesson 1 Exercise 6 • Pages 19-20 • (ML6)			
	Day 7	Complete Lesson 1 Exercise 7 • Pages 21-22 • (ML6)			
Week 2	Day 8	Complete Lesson 1 Exercise 8 • Pages 23-24 • (ML6)			
	Day 9	Complete Lesson 1 Exercise 9 • Pages 25-26 • (ML6)			
	Day 10	Complete Lesson 1 Exercise 10 Practice and Review Pages 27-28 • (ML6)			
Week 3	Day 11	Complete Lesson 1 Quiz Pages 17-18 • Math Level 6 Teacher Guide • (TG)			
	Day 12	Read Lesson 2: Whole Numbers in the Real World Pages 29-31 • (ML6) Complete Lesson 2 Exercise 1 • Page 32 • (ML6)			
	Day 13	Complete Lesson 2 Exercise 2 • Page 33 • (ML6)			
	Day 14	Complete Lesson 2 Exercise 3 • Pages 34-36 • (ML6)			
	Day 15	Complete Lesson 2 Exercise 4 • Pages 37-38 • (ML6)			
	Day 16	Complete Lesson 2 Exercise 5 • Pages 39-40 • (ML6)			
	Day 17	Complete Lesson 2 Exercise 6 • Pages 41-44 • (ML6)			
Week 4	Day 18	Complete Lesson 2 Exercise 7 • Pages 45-46 • (ML6)			
WССК 4	Day 19	Complete Lesson 2 Exercise 8 Practice and Review Pages 47-48 • (ML6)			
	Day 20	Complete Lesson 2 Quiz • Pages 19-20 • (TG)			
	Day 21	Read Lesson 3: Averaging, Rounding, and Roman Numerals Pages 49-50 • (ML6) Complete Lesson 3 Exercise 1 • Pages 51-53 • (ML6)			
Week 5	Day 22	Complete Lesson 3 Exercise 2 • Pages 54-56 • (ML6)			
WCCK )	Day 23	Complete Lesson 3 Exercise 3 • Pages 57-60 • (ML6)			
	Day 24	Complete Lesson 3 Exercise 4 • Pages 61-62 • (ML6)			
	Day 25	Complete Lesson 3 Exercise 5 • Pages 63-64 • (ML6)			
	Day 26	Complete Lesson 3 Exercise 6 • Pages 65-66 • (ML6)			
	Day 27	Complete Lesson 3 Exercise 7 • Pages 67-68 • (ML6)			
Week 6	Day 28	Complete Lesson 3 Exercise 8 Practice and Review Pages 69-70 • (ML6)			
	Day 29	Complete Lesson 3 Quiz • Pages 21-22 • (TG)			
	Day 30	Read Lesson 4: Fractions • Pages 71-73 • (ML6) Complete Lesson 4 Exercise 1 • Pages 74-76 • (ML6)			

Date	Day	Assignment	Due Date	✓ Grade
	Day 31	Complete Lesson 4 Exercise 2 • Pages 77-78 • (ML6)		
	Day 32	Complete Lesson 4 Exercise 3 • Pages 79-81 • (ML6)		
Week 7	Day 33	Complete Lesson 4 Exercise 4 • Pages 82-83 • (ML6)		
	Day 34	Complete Lesson 4 Exercise 5 • Pages 84-85 • (ML6)		
	Day 35	Complete Lesson 4 Exercise 6 • Pages 86-87 • (ML6)		
	Day 36	Complete Lesson 4 Exercise 7 Practice and Review Pages 88-90 • (ML6)		
	Day 37	Complete Lesson 4 Quiz • Pages 23-24 • (TG)		
Week 8	Day 38	Read Lesson 5: Working with Factors • Pages 91-92 • (ML6) Complete Lesson 5 Exercise 1 • Pages 93-94 • (ML6)		
	Day 39	Complete Lesson 5 Exercise 2 • Pages 95-96 • (ML6)		
	Day 40	Complete Lesson 5 Exercise 3 • Pages 97-98 • (ML6)		
	Day 41	Complete Lesson 5 Exercise 4 • Pages 99-100 • (ML6)		
Week 9	Day 42	Complete Lesson 5 Exercise 5 • Pages 101-102 • (ML6)		
	Day 43	Complete Lesson 5 Exercise 6 • Pages 103-104 • (ML6)		
	Day 44	Complete Lesson 5 Exercise 7 • Pages 105-108 • (ML6)		
	Day 45	Complete Lesson 5 Exercise 8 Practice and Review Pages 109-110 • (ML6)		
		First Semester-Second Quarter		
	Day 46	Complete Lesson 5 Quiz • Pages 25-26 • (TG)		
Week 1	Day 47	Read Lesson 6: More about Fractions - Mixed Numbers Page 111 • (ML6) Complete Lesson 6 Exercise 1 • Pages 112-114 • (ML6)		
WCCK 1	Day 48	Complete Lesson 6 Exercise 2 • Pages 115-117 • (ML6)		
	Day 49	Complete Lesson 6 Exercise 3 • Pages 118-119 • (ML6)		
	Day 50	Complete Lesson 6 Exercise 4 • Pages 120-121 • (ML6)		
	Day 51	Complete Lesson 6 Exercise 5 • Pages 122-124 • (ML6)		
	Day 52	Complete Lesson 6 Exercise 6 • Pages 125-126 • (ML6)		
Week 2	Day 53	Complete Lesson 6 Exercise 7 Practice and Review Pages 127-128 • (ML6)		
,, con 2	Day 54	Complete Lesson 6 Quiz • Pages 27-28 • (TG)		
	Day 55	Read Lesson 7: Using Factors and Multiples in Operations Pages 129-130 • (ML6) Complete Lesson 7 Exercise 1 • Pages 131-132 • (ML6)		
	Day 56	Complete Lesson 7 Exercise 2 • Pages 133-134 • (ML6)		
	Day 57	Complete Lesson 7 Exercise 3 • Pages 135-136 • (ML6)		
Week 3	Day 58	Complete Lesson 7 Exercise 4 • Pages 137-138 • (ML6)		
	Day 59	Complete Lesson 7 Exercise 5 • Pages 139-140 • (ML6)		
	Day 60	Complete Lesson 7 Exercise 6 • Pages 141-142 • (ML6)		

### **Review & Quiz Section**

**Cumulative Review, part 1** 

Lesson 4: Fractions

You will need these materials:
1. Your math book or notebook if you have been removing the pages as you go
2. A white board / markers / eraser
3. Your teacher
Check off each one as you complete it.
Look through each lesson carefully. If there are any areas of concern, take the time to work through the concept in question, using your whiteboard and discussing it thoroughly with your teacher.
Lesson 1: Working with Whole Numbers
Lesson 2: Whole Numbers in the Real World

Lesson 3: Averaging, Rounding, and Roman Numerals

#### **Cumulative Review, part 2**

You will need these materials:

1.	Your math book or notebook if you have been removing the pages as you go
2.	A white board / markers / eraser
3.	Your teacher
Ch	eck off each one as you complete it.
	ok through each lesson carefully. If there are any areas of concern, take the time to work through the concept in estion, using your whiteboard and discussing it thoroughly with your teacher.
	Lesson 12: Decimal Basics
	Lesson 13: More Work with Decimals
	Lesson 14: Using Decimals in the Real World
	Lesson 15: Percents
	Lesson 16: Using Decimals and Percents in the Real World — Savvy Shopping
	Lesson 18: Geometry
	Lesson 19: Maps!
	Lesson 20: Graphs and Charts
_	Lesson 21: Units of Measure

#### 10 problems - 10 points each

1. Write these numbers vertically and add them. Circle the one(s) that used carrying.

a. 
$$342 + 652 + 702 =$$

b. 
$$892 + 128 + 286 =$$

- 2. Now round all of the numbers in the problems 1a and 1b and estimate the sum of each addition problem. Optional: auditory learners may do this orally.
- 3. Write these numbers vertically and subtract. Circle the one(s) that used borrowing.

a. 
$$672 - 599 =$$

b. 
$$76,984 - 33,218 =$$

- 4. Now round all of the numbers in the problems 3a and 3b and estimate the answer of each subtraction problem. Optional: auditory learners may do this orally.
- 5. Write these numbers vertically and multiply them. Circle the one(s) that used carrying.

6. Now round all of the numbers in the problems 5a and 5b and estimate the answer of each multiplication problem. Optional: auditory learners may do this orally.

7. Divide. Next to each problem, use rounding to estimate the answer.

a. 
$$735 \div 23 =$$

b. 
$$9,451 \div 45 =$$

- 8. What are the three ways of writing a division problem? Show them using 9 as the dividend and 3 as the divisor.
- 9. Write the divisibility rules for:

Dividing 2:

Dividing 5:

Dividing 9:

Dividing 3:

Dividing 4:

 $10. \ \ Multiplication \ facts! \ Complete \ your \ multiplication \ drill.$ 

#### 20 problems, 5 points each

- 1. If you had a list of monthly expenses and bills, how would you find out what your monthly budget should be? Why?
- 2. If you knew you had a certain amount of money in your bank account, how would you keep track of your current amount as you took money out to pay for your expenses? Why?
- 3. If you got a job that paid \$15 for every hour you worked, how would you figure out what your paycheck should be after working 35 hours? Why?
- 4. Use the answer to problem 3 to solve. How much money would you have after working 4 weeks of work 35 hrs/week?
- 5. When you come across a story problem that has too much information, what are the four steps you would follow to find the answer?

What are the clue words for:

- 6. adding
- 7. multiplying
- 8. subtracting
- 9. dividing
- 10. Circle the number that you would enter into your calculator first to solve this problem.

$$81,918 \div 9 =$$

Solve each problem using regular calculation. Check with your calculator. Draw your calculator's buttons next to each problem to show how you would enter the numbers to solve each problem.

11. 
$$62,215 + 3,110 + 4,879 =$$

12. 
$$3,862 - 2,998 =$$

13. 
$$3,871 \times 382 =$$

- 14. The mountain climber was determined to climb Mount McKinley. In his first attempt, he climbed 16,385 feet before turning back. In his second attempt, he got dizzy at 14,310 feet and had to return to his base camp. Finally, in his final attempt, he reached the 20,310 foot summit. Write and solve equations showing how close he got to the summit in each of his first two attempts.
- 15. How many feet did he climb altogether?
- 16. If the family grocery budget is \$7,200 per year, how much do they spend on groceries each month?
- 17. If their total monthly budget is \$4,600, how much do they have left after the grocery budget is spent?
- 18. How much is their total yearly budget? If they save \$300 per month, how much do they save a year?
- 19. Write your own multi-step story problem using clue words for addition and subtraction. Solve your problem.
- 20. Write your own multi-step story problem using clue words for multiplication and division. Solve your problem.

25 problems - 4 points each

- 1. Write 923,805,001 in number words.
- 2. Reduce these fractions by using factoring and cancellation.

(a) 
$$\frac{320}{740}$$

(b) 
$$\frac{680}{990}$$

(c) 
$$\frac{700}{1,100}$$

3. Factor these numbers down to their prime factors by using factoring trees.

4. 
$$14 \div \frac{3}{7} =$$

5. 
$$2\frac{5}{9} \times 6\frac{1}{2} =$$

6. 
$$3\frac{1}{4} + 1\frac{4}{5} - 4\frac{3}{10} =$$

- 7. Explain in detail when you should use GCF.
- 8. Explain in detail when you should use LCM.
- 9. What is 2% written as a decimal? \_\_\_\_\_ as a fraction? \_\_\_\_

- 10. Write 65% as a reduced fraction.
- 11. Write 4.52 as a percent.
- 13. What is 30% of 550?
- 14. What is 10% of \$75.69?

With your protractor, draw these angles. Label them.

15. Acute angle 80°

16. Obtuse angle 170°

- 17. Find the perimeter of these shapes: A square with 12-foot sides and a rectangle with sides that are 22 feet long and 16 feet long.
- 18. What is the difference between a line and a segment?
- 19. How are circles labeled?
- 20. What is the diameter of a circle that has a 9.5 feet radius?

Day

Exercise

When we are working with whole numbers, it is very important to understand place value. Study the concept below and solve the problems. As you work through the problems, it may help to narrate the process to your teacher. Do you understand completely? If not, take the time now to gain more confidence and understanding

Place value / writing large numbers / odds and evens

Name

Ones ന 9 2

Tens

Hundreds

Thousands

Ten Thousands

Hundred Thousands

One Millions

Ten Millions

One Hundred Millions

et's review the place value up to through the millions.

2 7 σ

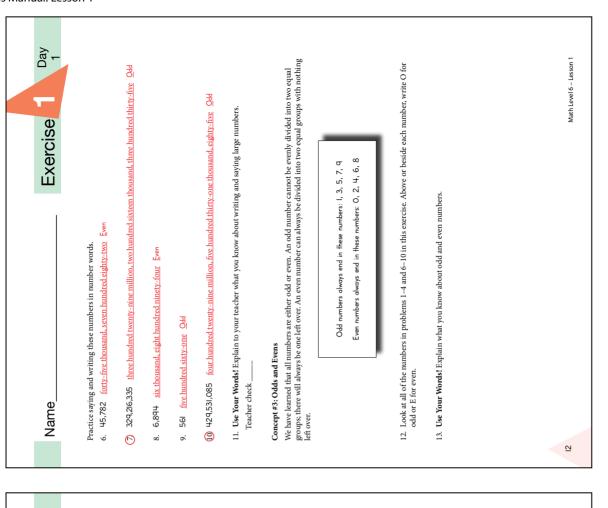
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σ

∞



Teacher check

0

5. Use Your Words! Explain to your teacher everything you know about place value.

Math Level 6 - Lesson 1

1,456,834 <u>E</u>ven

Answers #1.2

2. Circle the digit in the ten thousand's place:

\$\int\_{\text{QN}}\$ (\$\text{QN}\_{\text{Pos}}\$) (\$\text{Dool}\$ \text{Dool}\$)

Circle the digit in the hundred's place:

4,982(I)DO Even

201 Odd

32,685 <u>o</u>dd

1. Circle the digit in the ten's place:

Answers #12

PPO 50

Solve these problems

PPO 13€) b82

34,492 Even

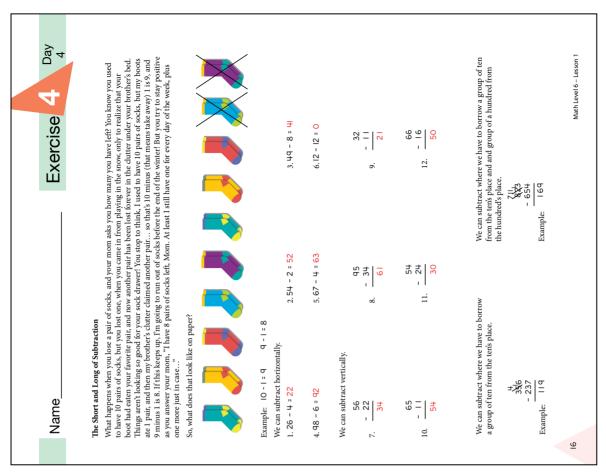
387,400,126 Even

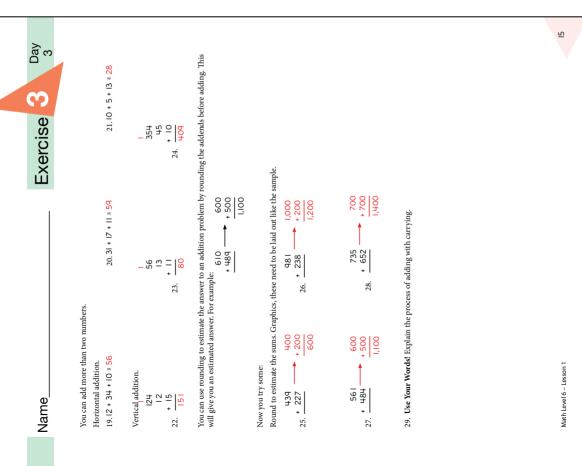
4. Fill in the place value chart with this number:

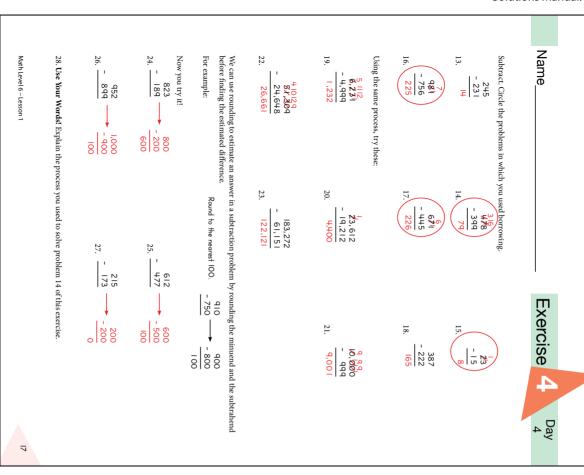
831,223 Odd

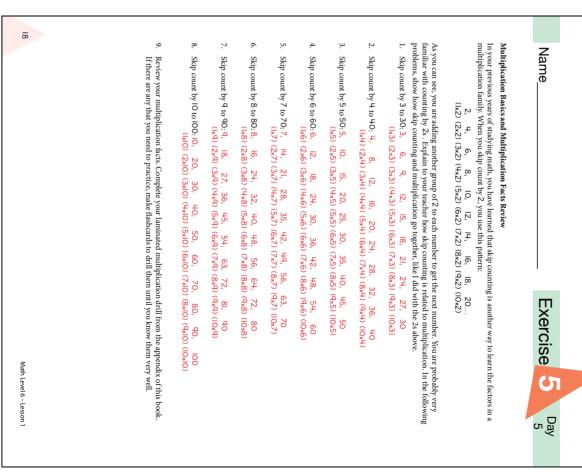
Name\_ When we work with numbers, we often need to round them to make it easier to do computations with them. For example, we may need to quickly estimate what several large numbers are all together. It is important to know the process of rounding and estimating Math Level 6 – Lesson 1 11. 34,980 <u>35,000</u> 8. 127,947 127,900 7. 823 <u>800</u> 6. 23,490 23,500 3. 391 <u>390</u> 2. 45 <u>50</u> 1. 423 420 Trick #2: Turm all the neighbors to the right of the place to which you are rounding into place holder zeros. 367 becomes 400. Trick #1: Ask the neighbor number if you should round to the smaller hundred or the larger hundred. Is the neighbor number to the right (6) five or bigger? If it is, round to the bigger hundred. If it is smaller than five, round to the smaller hundred. Decide what two "hundreds" 367 is between. 300 and 400 Example: Round 367 to the hundreds place. 16. Use Your Words! Explain the process of rounding. 13. 178,251 178,000 12. 5,459 5,000 Round these numbers to the thousand's place. Round these numbers to the hundred's place. Round these numbers to the ten's place. Now you try it: Underline the digit in the place to which you are rounding. (3) Rounding tricks I am going to teach you some fun tricks to remember when you are rounding, but first let's review the steps of 9. 309 10. 989 5. 1,257 <u>1,260</u> 14. 29,589 30,000 15. 1,474,910 1,475,000 56 <u>60</u> 1,000 300 Exercise Day 2  $\overline{\omega}$ 

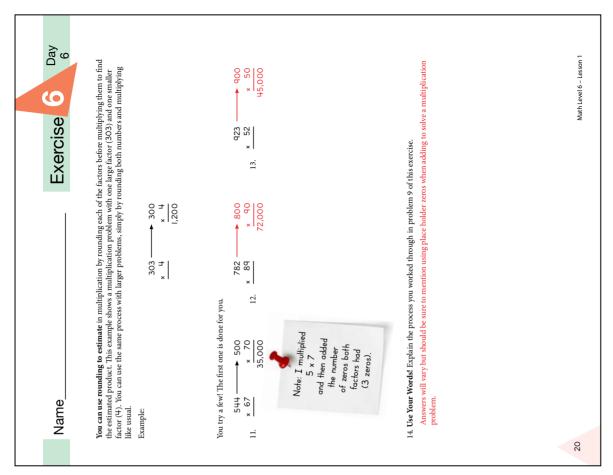
16. +11 17. +18 17. +18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Add with carrying.  239  13. + 34  273  14. + 189  756	We can add with carrying.  In this problem, when we add the one's column, we end up with more than what can fit in the one's place (a number larger than 9). This means that we have to carry the group of ten up to the top of the ten's column and add it to the rest of the tens.    1	10. +11 74 11. +114 11. +68	We can add vertically.  46  7. + 23  8. + 14  7 69  8 19	4. 90 + 6 = 96 5. 35 + 4 = 39	1. 20 + 6 = 26 2. 34 + 10 = 44	Addition (short and long)  Numbers are amazing, aren't they? They can show how many socks we own, or they can show how many socks our whole family owns. When we want to combine two or more numbers, we use an operation called adding. By adding two numbers (addends) together, we come up with an answer called the sum. Remember, addends may be added in any order without changing the sum.  Let's start with a review of simple addition.  We can add horizontally.	Name
3qq 3qq +10 +10 Math Level 6 - Lesson 1	15. †   1 200	n more than what can fit in the one's place (a number n up to the top of the ten's column and add it to the 1   367   384   450   +50	76 12. +13 84	9. ±114 27	6. I2 + I2 = <mark>24</mark>	3. 42 + 8 = 50	ocks we own, or they can show how many socks our mbers, we use an operation called adding. By adding alled the sum. Remember, addends may be added in	Exercise 3 Day 3

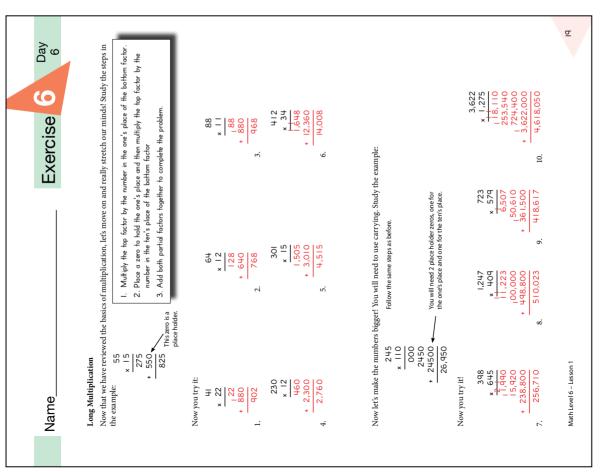












Name Math Level 6 – Lesson 1 Now you write three multiplication equations and their matching division facts Use Your Noodle — draw a doodle! showing how addition and subtraction go together. You have learned that addition and subtraction are related. In the space below, Division basics Now, let's quickly review the concept of division! If you have 6 cookies, and your mom says, "That's way too many! Share half of those with your brother!" How many cookies will each of you have? 3 That's division. How did you do it? Draw a doodle below. Underneath that, draw a doodle of how multiplication and division are related. c. Answers will vary. b. Answers will vary. a. Answers will vary. Do a quick review of your division facts! Study these multiplication facts and write the matching division facts that go with them. Example: 12 x 12 = 144 Answers will vary. Answers will vary. 91 = h × h 9 × 3 = 27 5 x 6 = 30 5 × 3 = 15 3 x 4 = 12 division:  $27 \div 3 = 9$  or  $27 \div 9 = 3$ division:  $15 \div 3 = 5$  or  $15 \div 5 = 3$ division:  $12 \div 4 = 3$  or  $12 \div 3 = 4$ division: 144 ÷ 12 = 12  $30 \div 6 = 5$  or  $30 \div 5 = 6$ Exercise

