



# 3<sup>rd</sup> Grade Math

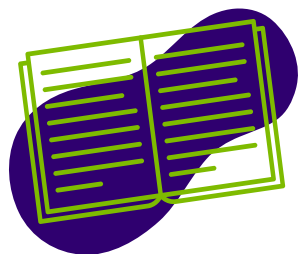
## Curriculum Sample

**A Grade Ahead will challenge your students and help them achieve their goals!**

Beginning in June 2021, our 3<sup>rd</sup> graders will be participating in A Grade Ahead Online, a blended learning program that integrates both traditional and electronic methods to teach students.

Our students begin the week learning a lesson and answering practice questions with paper and pencil in our monthly lesson booklets. Then they go online to a website to complete three days of online activities to master the topic of the week.

Here's how it works:



### Monthly Blended Learning Lesson Booklet

Students receive a lesson booklet each month that is broken into four weeks. Every week, students are introduced to a new topic with explanations and examples followed by student practice questions.

At the end of this document, you will find a full sample of one week's lesson and practice problems from A Grade Ahead's 3<sup>rd</sup> Grade math curriculum.



### A Grade Ahead Online Activities

After learning the lesson and practicing problems with a traditional approach, students continue learning online through activities at [online.agradeahead.com](http://online.agradeahead.com). Every week, students have three days of homework that can include both curriculum facts and word problems.



**Register online today!**

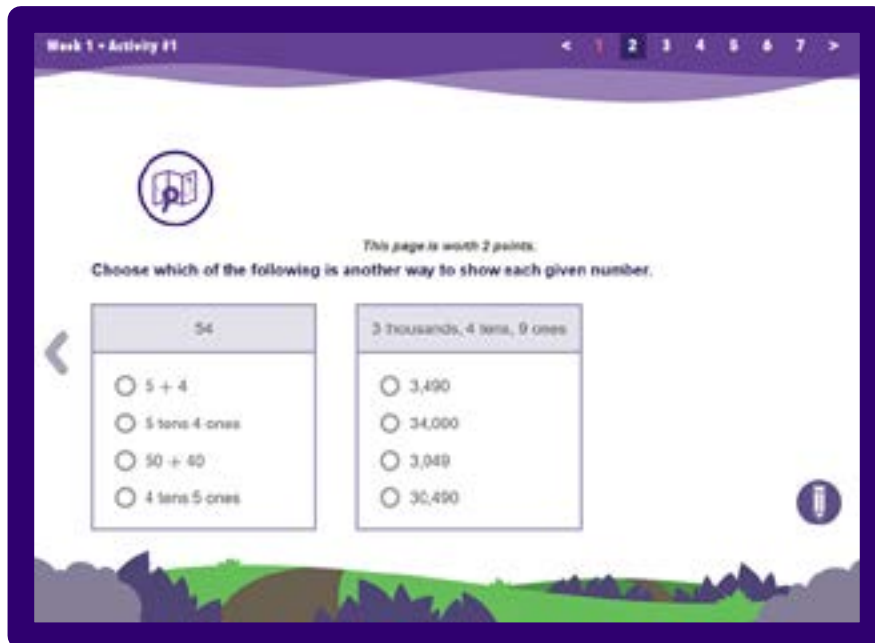


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A Grade Ahead Online offers many benefits to students and parents, including

- **Interactive and colorful questions** with formats like matching, drag and drop, fill in the blank, multiple choice, and more.
- **Automatic grading** that saves times for parents and provides immediate feedback for students. They know whether they got a question right or wrong as they are going through the homework, so they can make adjustments if necessary.
- **A rationale for every online question** that explains the correct answer, so students can learn from their mistakes immediately.
- **Student progress reports** that are easily accessible without parents needing to upload any data. In fact, a parent has access to raw data from all of his or her student's online work.
- **Adaptive learning paths** that provide more challenging questions to students who perform well on the first set of activities.

Here is a peek at a few of our online exercises:




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Week 5 - Activity #1



This page is worth 2 points.


A farmer is planting tomatoes and watermelons. Each tomato plant will produce 5 tomatoes during the growing season. Each of his watermelon vines will produce 7 watermelons during the season.

The farmer has 10 tomato plants. How many total tomatoes will he have in the season?

tomatoes

He has 7 watermelon vines. How many total watermelons will he have?

watermelons



## Want to see how A Grade Ahead works first-hand?

We have attached an entire lesson and one day's worth of homework for you to print out and try.



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# Lesson Booklet Sample

## 3<sup>rd</sup> Grade Math

**Print it out and try it!**



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**3<sup>th</sup> Grade • Month 1**

# MATH

**BLENDED LEARNING LESSON BOOKLET**

**NAME** \_\_\_\_\_



**Place Value / Standard, Expanded, & Word Form**

**A. Place Value**

Place value is used to determine the size of a number and compare it with other numbers.

Any number is written using ten different digits: 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9. When you move to the left in a number, each place is equal to ten times the value of the place to the right.

**Student Goals:**

- ✓ I will learn place value, standard form, expanded form, and word form of a 4-digit number.
- ✓ I will be able to write a number in any of the forms mentioned above.



*Note: Students should be familiar with the hundreds place value learned in 2nd grade. 3rd graders will learn place value up to the thousands.*

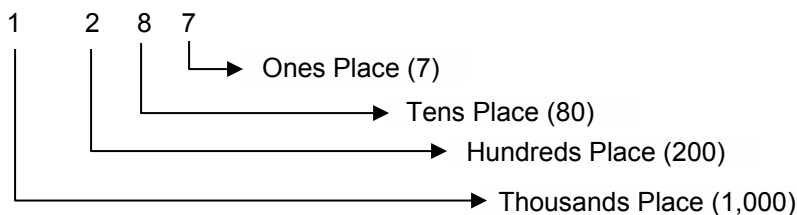
Think about the number 1,287.

Starting from the right, the *right-most* digit is the ones place. There are 7 ones in this example (7 ones equal 7).

The next digit to the left of the ones is the tens place. It tells you that there are 8 tens (8 tens equal 80).

The next digit to the left of the tens is the hundreds place. It tells you how many hundreds there are in the number. The number 1,287 has 2 hundreds (2 hundreds equal 200).

The *left-most* digit is the thousands place. It tells you how many thousands there are in the number. In this number, there is 1 thousand (1 thousand equals 1,000).



A chart helps to learn place value. It matches each digit in the number to its value. Below is an example:



**Example:** Determine the place value of each digit in the number 6,142 using the chart. You can do this by asking yourself the following questions: how many thousands, how many hundreds, how many tens, and how many ones?

Thousands	Hundreds	Tens	Ones
6	1	4	2

The chart can also be used in reverse to find the place value of a digit. For instance, you can look at the chart and see that the 2 is in the ones place.



*Note: To increase clarity in reading a larger number, all numbers greater than 999 should be written with a comma between the hundreds and thousands place. Example: 5,672 instead of 5672. Starting from the right, you add a comma after every 3 numbers.*



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**Example:** What is the number: 3 thousands 5 tens?

3 thousands is 3,000. 5 tens is 50.  
So the number is  $3,000 + 50 = 3,050$ .



**Example:** What is the place *and* value of **3** in the number 2,386?

2,386 is a four-digit number. The second digit is the 3, and it is in the hundreds place, which tells us that there are 3 hundreds in the number. The place of 3 is the hundreds, and its value is **300**.



*Note: Students must understand the difference between the place of a number and its value. In the example above, the place of 6 is the ones, and its value is 6. The place of 8 is the tens, and its value is 80. The place of 3 is the hundreds, and its value is 300. The place of 2 is the thousands, and its value is 2,000.*



**Example:** What is the number: 7 thousands 4 hundreds 5 ones?

Use the place value chart. Put the numbers in the correct column. Put a 0 where there is no digit given.

Thousands	Hundreds	Tens	Ones
7	4	0	5

The number is **7,405**.



**Teaching Tip:** Show the students that when they say a 3 or 4-digit number, they use the words “hundred” and “thousand.” This gives them a hint as to what the place value of certain digits is. Example: 1,456 is read as one thousand four hundred fifty-six. So, it already tells them that the place value of 1 is the thousands, and 4 is the hundreds.



**Student Practice**

**Write the place value of the underlined digit? What is its value?**

- |                         |                         |
|-------------------------|-------------------------|
| 1. 3 <u>9</u> 5 _____   | 2. <u>7</u> 05 _____    |
| 3. 1,0 <u>0</u> 9 _____ | 4. <u>8</u> ,019 _____  |
| 5. <u>9</u> 91 _____    | 6. <u>9</u> ,990 _____  |
| 7. 1,0 <u>6</u> 5 _____ | 8. 7, <u>1</u> 29 _____ |



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**B. Standard, Expanded, and Word Forms**

There are three basic ways of writing a number: the standard form, the expanded form, and the word form.

The *standard form* of any number is the number written with numbers. For example, the standard form for 35 is **35**.

The *expanded form* of a number is the number broken down by place value. For example, the expanded form of 35 is **30 + 5** (since there is a 3 in the tens place, and is equal to 30, and a 5 in the ones place.)

The *word form* of a number is written using words. For example, 35 in word form is **thirty-five**.



**Example:** For the number **124**

*Standard form:* 124

*Expanded form:*  $100 + 20 + 4$

*Word form:* one hundred twenty-four



**Example:** For the number **1,405**

*Standard form:* 1,405

*Expanded form:*  $1,000 + 400 + 5$

*Word form:* One thousand four hundred five.



*Note: If a place has a value of 0, it is omitted in the expanded form.*



**Example:** Write the following in expanded form: **72**

**70 + 2.** Expanded form can also be written: 7 tens 2 ones (sometimes the latter is also called the Place value form).



**Example:** Write the following in standard form: **8 hundreds, 9 ones**

Use the place value chart. Put the numbers in the correct column. Put a 0 where there is no digit given.

Thousands	Hundreds	Tens	Ones
	8	0	9

The number is **809**.



*Note: If a place value has no number, don't forget to place a zero (0) in that spot. Otherwise, you may end up with incorrect answers. For instance, if you forgot the zero in the tens place for 8 hundreds and 9 ones, you would end up with 89, instead of 809.*



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**Example:** Write the following in standard form: **Four thousand twenty.**

Use the place value chart. Put the numbers in the correct column. Put a 0 where there is no digit given.

Thousands	Hundreds	Tens	Ones
4	0	2	0

The number is **4,020**.



**Student Practice**

**Write the expanded form of the following numbers.**

9. 849 = \_\_\_\_\_ 10. 1,658 = \_\_\_\_\_

11. 548 = \_\_\_\_\_ 12. 3,258 = \_\_\_\_\_

13. 248 = \_\_\_\_\_ 14. 5,680 = \_\_\_\_\_



**Student Practice**

**Write the following in standard form.**

15.  $7,000 + 400 + 6 =$  \_\_\_\_\_ 16. Three thousand sixty six = \_\_\_\_\_

17. Two thousand seventy = \_\_\_\_\_ 18.  $5000 + 800 + 90 =$  \_\_\_\_\_

19.  $300 + 20 + 5 =$  \_\_\_\_\_ 20. Nine thousand and ninety = \_\_\_\_\_



**Student Practice**

**Write the word form of the following numbers.**

21.  $400 + 90 + 4$   
\_\_\_\_\_

22. 3 hundreds 7 tens 3 ones.  
\_\_\_\_\_

23.  $7,000 + 100 + 6$   
\_\_\_\_\_



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**C. Adding and Subtracting Place Value Numbers**



**Example:** Write the following in *standard form*, then calculate the answer.

3 tens 5 ones plus 9 tens  
 $35 + 90 = 125$



**Example:** Write the following in *expanded form*. Then calculate the answer.

3 hundreds 3 tens 5 ones plus 2 hundreds 9 tens  
 $(300 + 30 + 5) + (200 + 90) = 335 + 290 = 625$



**Example:** Calculate forty-two minus 2 tens. Write the answer in *word form*.

$42 - 20 = 22 = \text{twenty-two}$



**Example :** Use the following digits to write all numbers greater than 4000.

2                      0                      6                      7

The numbers must be greater than 4,000, so the number in the thousands place must be either 4 or greater than 4, and only 6 and 7 are greater than 4 in this set. When doing these types of problems, list the numbers from smallest to biggest.

6,027      6,072      6,207      6,270      6,702      6,720  
 7,026      7,062      7,206      7,260      7,602      7,620



**Student Practice**

**Write the following in standard form and calculate.**

24. Add 4 hundreds 6 tens and 5 hundreds 4 ones:

---

25. Subtract 2 hundreds from 9 hundreds 3 tens 5 ones:

---

26. Add 8 tens and 8 hundreds 9 ones:

---

27. Subtract 2 hundreds 3 tens 4 ones from 2 hundreds 4 tens 4 ones:

---



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**Student Practice**

*Students must show their work in the space provided.*

The following items are on sale. Write the savings on each item in the blank space provided below. **[Regular price – Sale price]**

Summer dresses      Regular price: \$70      Sale price: \$58      28. \_\_\_\_\_

Stockings      Regular price: \$8      Sale price: \$5      29. \_\_\_\_\_

Sandals      Regular price: \$67      Sale price: \$45      30. \_\_\_\_\_

Jackets      Regular Price: \$130      Sale price: \$95      31. \_\_\_\_\_

32. Rhonda buys a dress and a pair of sandals. How much money does she save by buying at the reduced prices?

\_\_\_\_\_

33. Amy spends \$100 and buys four items at the reduced price. She buys two pairs of stockings. What else does she buy?

\_\_\_\_\_

34. What are the savings on two jackets and two pairs of stockings?

\_\_\_\_\_

**CHALLENGE!**

35. What is the largest number that can be made from the following digits?

**4    1    5    0**

\_\_\_\_\_

36. What number is in the hundreds place?

\_\_\_\_\_



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Answers of Student Practice

- |                                    |  |
|------------------------------------|--|
| 1) ten; 90                         | 2) hundreds; 700                         |
| 3) ones; 9                         | 4) thousands; 8,000                      |
| 5) hundreds; 900                   | 6) thousands; 9,000                      |
| 7) tens, 60                        | 8) hundreds, 100                         |
| 9) $800 + 40 + 9$                  | 10) $1,000 + 600 + 50 + 8$               |
| 11) $500 + 40 + 8$                 | 12) $3,000 + 200 + 50 + 8$               |
| 13) $200 + 40 + 8$                 | 14) $5,000 + 600 + 80$                   |
| 15) 7,406                          | 16) 3,066                                |
| 17) 2,070                          | 18) 5,890                                |
| 19) 325                            | 20) 9,090                                |
| 21) four hundred ninety-four       | 22) three hundred seventy-three          |
| 23) seven thousand one hundred six |  |
| 24) 964 [460+504]                  | 25) 735 [935 - 200]                      |
| 26) 889 [80+809]                   | 27) 10 [244 - 234]                       |
| 28) \$12 [70 - 58]                 | 29) \$3 [8 - 5]                          |
| 30) \$22 [67 - 45]                 | 31) \$35 [130 - 95]                      |
| 32) \$34 [12+22]                   | 33) two pairs of sandals [45+45+5+5=100] |
| 34) \$76 [35+35+3+3]               | 35) 5,410                                |
| 36) 4                              |  |



Head online to complete all days of the course:  
**MATH: Place Value (W1)**



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## Now, more than ever, kids need supplemental education!

A Grade Ahead's Enrichment at Home program makes it easy for you to help your students get caught up – and even stay ahead of – their peers. Our students are top performers at the heads of their classes who get into Ivy League schools and perform well on standardized tests. They reach their goals of becoming doctors, engineers, and other well-paid professionals.

### Why Enrichment at Home?

- 1. Our curriculum is outstanding**, with clear lessons and worksheets that are challenging and interesting. They are not boring and repetitive like some other programs.
- 2. Our parents love us**, with more than 90% referring us to their friends and families year after year. **See what real parents are saying in "Our Results"**.
- 3. It's flexible.** You decide what curriculum your child needs and when to complete the lessons and worksheets.
- 4. It's cost-effective.** We provide everything you need to implement our enrichment program, starting at \$50 per month, with many discount options offered.

### Build Your Own Program

Whether your child is ahead of his or her peers or has some catching up to do, the Enrichment at Home program allows you to select the lessons your child will receive. By reviewing our **curriculum calendar**, you can look at each month's topics and decide what is best for your child. Visit our **Math** or **English** web pages, and choose the grade you want to review. You will find the details on the right-hand side. When **registering**, you can specify which month you want to receive. If your student is on pace with his or her peers, simply register, and we will send you the current month of curriculum. We can always make adjustments if the work is too hard or too easy.

*Our monthly curriculum is delivered to your home each month for \$50/month. Commit to six months and save \$50! To see other discounts, visit our [Pricing page](#).*



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