



1st Grade Math

Curriculum Sample

What future do you envision for your student? Straight-A student? Valedictorian? Stanford or Harvard graduate? Successful doctor or engineer?

Our strong math curriculum can help your student reach his or her goals!

A Grade Ahead's math program introduces and builds upon math concepts every week to strengthen your child's math capabilities over time.

But we don't stop there! We understand the value of logic, critical thinking, and problem-solving skills, and we introduce your child to real-world situations through word problems and interactive activities.

We make it easy to implement at home! Here's how it works:

- 1. Learn a lesson:** New topics are introduced each week. *(Older students can teach themselves with our easy-to-understand lesson. Younger students may need to be assisted by a parent.)*
- 2. Complete four days of homework exercises.** *(Select the time and place to complete the homework around your schedule.)*
- 3. Also complete four days of numerical drills** to practice speed and accuracy.
- 4. Check your student's success** with the answers provided.
- 5. Enter scores in our Parent Portal** to follow your student's achievements.

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.



Register online today!



Questions? Call 866.628.4628, chat at enrichmentathome.com, or email enrichmentathome@agradeahead.com.



Lesson Booklet Sample

1st Grade Math

Print it out and try it!



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Add and subtract these numbers.

$$\begin{array}{r} 1. \quad 20 \\ + \quad 7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 11 \\ + \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 24 \\ + \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 13 \\ + \quad 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 14 \\ + \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 23 \\ + \quad 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 11 \\ + \quad 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 24 \\ + \quad 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 13 \\ + \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 22 \\ + \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 22 \\ + \quad 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 20 \\ + \quad 6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 21 \\ + \quad 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 12 \\ + \quad 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 25 \\ + \quad 4 \\ \hline \\ \hline \end{array}$$



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Answers - Addition / Subtraction 1

Day: 1

1) 27
4) 18
7) 13
10) 25
13) 25

2) 14
5) 17
8) 29
11) 27
14) 16

3) 27
6) 27
9) 16
12) 26
15) 29



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Word Problems

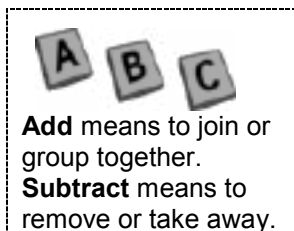


Teaching Tip: Word problems are a large part of the math curriculum. When teaching how to approach and solve them to students at a younger age, be sure to make the problems relatable. Point out the addition and subtraction keywords in all questions. Be sure to teach using the C.U.B.E method.

Student Goals:

- ✓ I will be able to read a word problem and know what information to use to solve it.
- ✓ I will learn the keywords that will help me know when to add or subtract in word problems.
- ✓ I will use the C.U.B.E. method to solve word problems.

Word problems connect what you are learning about (addition and subtraction) to 'real life.' In doing this, you must be able to understand the story, pick out important information, and translate English terms to math terms.



When you begin a word problem, you should do the following:

- (1) Read through it carefully one to two times.
- (2) Picture the story from the word problem in your head. Act it out with classmates or family members if needed.
- (3) Follow the C.U.B.E. method.

The C.U.B.E. Method

- C**ircle the numbers: *These are the numbers you will be adding or subtracting.*
- U**nderline the question: *This word or phrase will tell you to add or subtract the numbers you circled.*
- B**ox the keyword or key phrase: *This will remind you what is being asked and to include the item you are counting with your number answer.*
- E**nd with a picture: *Use the steps above to help you solve the problem.*

Below is a list of keywords and key phrases that tell you whether to add or subtract in a word problem. Memorize them and their meanings to help you solve word problems.

Add +	Subtract -
Altogether	Difference
Both	Fewer
Total	How many more
Sum	Left
Combine	Remains



Example: Ted had 2 toy trucks to play with. His friend Eddie had 3 toy trucks to play with. How many toy trucks did they have altogether?

First, read the problem a few times. Make sure you can picture the story in your head. Next, use the C.U.B.E. method to help you find the answer.

Circle the numbers, Underline the question, Box the keyword, End with a picture.

Ted had ② toy trucks to play with. His friend Eddie had ③ toy trucks to play with. How many toy trucks did they have altogether?



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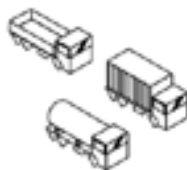


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Ted:



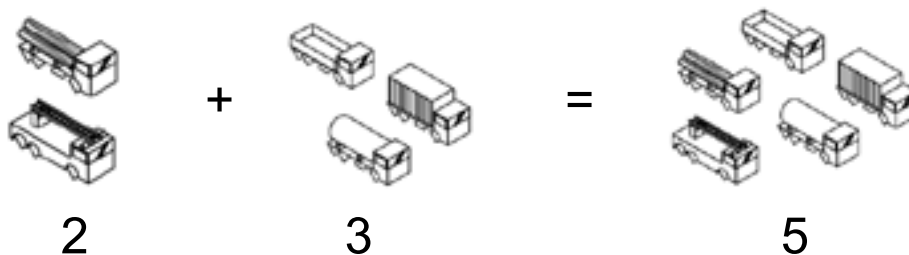
Eddie:




How many toy trucks did they have altogether?

If you look back at the question that you underlined, you will see that the keyword “altogether” is used, and “altogether” tells you to add Ted’s and Eddie’s toy trucks.

Altogether:



$2 + 3 = 5$ toy trucks

 *Note: Be sure to write the name of the item you are counting in your answer.*




Example: Jake has 16 stamps. Donald has 8 fewer stamps. How many stamps does Donald have?

The numbers are circled, the question is underlined, and the keyword is boxed. The keyword tells you to subtract to find the answer. Use this information to draw a picture to help you solve.



$16 - 8 = 8$ stamps

 *Note: When drawing pictures, students do not have to draw the specific item mentioned in the word problems; they may use circle, dots, lines, etc. to represent them.*



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Date: _____

Start time: _____ End time: _____

Score: ____/16

Label the following keywords or key phrases as addition (+) or subtraction (-).

(1) **Altogether** _____

(2) **Difference** _____

(3) **Fewer** _____

(4) **How many more** _____

(5) **Both** _____

(6) **Sum** _____

(7) **Left** _____

(8) **Total** _____

Word Problems: Use the C.U.B.E. method in each question.

Dana picked up 8 rocks. Her friend, Katie, picked up 13 rocks. How many more rocks did Katie pick up?

- (9) **Circle the numbers.**
Underline the question.
Box the keyword or key phrase.

(10) **Which keyword or key phrase is in this word problem?**

(11) **Does it tell you to add or to subtract?**

(a) add

(b) subtract



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**Nicole has 4 fewer dogs than cats. She has 6 cats.
How many dogs does she have?**

- (12) **Circle the numbers.
Underline the question.
Box the key word or key phrase.**



- (13) **Which keyword or key phrase is in this word problem?
Write it in the blank below.**



- (14) **Does it tell you to add or subtract?**

(a) add

(b) subtract

- (15) **End with a picture. Draw a picture to help you answer
the question. Be sure to include what you are counting in
your answer.**

CHALLENGE!!! Use the C.U.B.E. method.

- (16) **Amy bought 16 pieces of gum. She gave her sister 5.
How many pieces of gum does she have left?**



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Week: 1

Answers - Grade 1

Week: 1 – Day 1

- | | | | |
|----|---|----|---|
| 1) | + | 2) | - |
| 3) | - | 4) | - |
| 5) | + | 6) | + |
| 7) | - | 8) | + |
- 9) Dana picked up 8 rocks. Her best friend, Katie picked up 13 rocks. How many more rocks did Katie pick up?
- 10) "How many more"
- 11) b
- 12) Nicole has 4 fewer dogs than cats. She has 6 cats. How many dogs does she have?
- 13) "Fewer"
- 14) b
- 15) Make sure students draw a picture of 6 cats and cross out 4; 2 dogs [6-4=2]
- 16) 11 pieces of gum [Students should do all the steps of the C.U.B.E. method; 16-5=11]



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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.



Is your student ready to join the 25,000 other students who have benefited from our pragmatic, effective approach? Register today to see what A Grade Ahead can do for your family.



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