

MATH HANDBOOK

Sycamore Canyon School

It All Begins in the CLASSROOM!



#1) BE THERE: We care about you and want you to succeed! Unless you're sick, you should be at school. If you're out, make up your work so you don't fall behind.

#2) ACTIVELY PARTICIPATE: Raise your hand, ask questions, and make mistakes (we ALL do)!

#3) LISTEN CAREFULLY: Tune in to the lesson. Look at the teacher when he/she is speaking.

#4) WRITE IT: Take notes and do the examples in class. Follow along with the lesson.

Now It's HOMEWORK Time!



#1) You should head your paper with the assignment title, page number(s), and exercise numbers. You are ready to go! Remember to write neatly, put space between your problems, and ALWAYS use a pencil.

#2) Write the problem number and copy the problem. If it's a word problem, write down the important facts of the problem only.

#3) Show ALL of your work! Keep it organized and don't it in a tiny space! Circle or box your answer.

SMUSH

#4) Check for reasonableness. Does your answer make sense? Can you estimate to check?

What if You Need Help with HOMEWORK?

#1) LOOK at the lesson examples in your book. LOOK at the examples that we did in class together. Work them out on a separate piece of paper and check your answers.

#2) Go to the BIG IDEAS WEBSITE. You will not be disappointed. It has EVERYTHING (just look at the next slide for a few website help ideas)!

#3) See your teacher before school for a quick question about homework or after school for MORE help.



What if You Need Help & You Are Near a Computer?

Log on to the BIG IDEAS WEBSITE.



How to Log on to the Big Ideas Website

To login → click the **button**  from your

teacher's website → click **Log in w/ LDAP**



and log in with Q credentials



→ If successful, your name should appear in the upper right

corner → click the icon



and this will take you to

the Resources Page



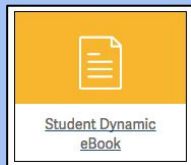
→ bookmark page.

My Username _____

My Password _____

BIG IDEAS Website Resources for YOU

In the “Student Dynamic eBook”,



find the examples from your lesson and click

the



icon. It will show you how to

do the problems, step-by-step.

1.1 Lesson

Check It Out
Lesson Tutorials
BigIdeasMath.com

Recall the four basic operations: addition, subtraction, multiplication, and division.

Operation	Words	Algebra
Addition	the <i>sum</i> of	$a + b$
Subtraction	the <i>difference</i> of	$a - b$
Multiplication	the <i>product</i> of	$a \times b$ $a \cdot b$
Division	the <i>quotient</i> of	$a \div b$ $\frac{a}{b}$ $b \overline{)a}$

EXAMPLE 1

Adding and Subtracting Whole Numbers

The bar graph shows the attendance at a three-day art festival.

a. What is the total attendance for the art festival?

You want to find the total attendance for the three days. In this case, the phrase *total attendance* indicates you need to find the sum of the daily attendances.

Line up the numbers by their place values, then add.

❖ The total attendance is 9591 people.

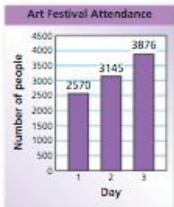
b. What is the increase in attendance from Day 1 to Day 2?

You want to find how many more people attended on Day 2 than on Day 1. In this case, the phrase *how many more* indicates you need to find the difference of the attendances on Day 2 and Day 1.

Line up the numbers by their place values, then subtract.

❖ The increase in attendance from Day 1 to Day 2 is 575 people.

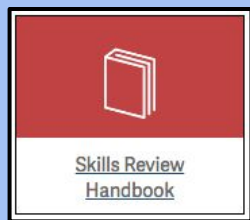
Art Festival Attendance



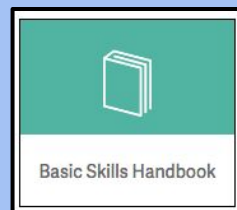
Day	Attendance
1	2570
2	3145
3	3876

Relearn or Explore Math Topics in BIG IDEAS!

Get extra practice using the “Skills Review Handbook” or “Basic Skills Handbook” with exercise documents



and the answers too!



Skills Review Handbook (Middle School)

Topic 1: Whole Numbers

- 1.1 Rounding Whole Numbers Answers | Exercise
- 1.2 Adding and Subtracting Whole Numbers Answers | Exercise
- 1.3 Multiplying Whole Numbers Answers | Exercise
- 1.4 Dividing Whole Numbers Answers | Exercise
- 1.5 Writing Whole Number Expressions Answers | Exercise

Topic 2: Factors and Multiples

- 2.1 Factors of Whole Numbers Answers | Exercise
- 2.2 Divisibility Tests Answers | Exercise
- 2.3 Prime and Composite Numbers Answers | Exercise
- 2.4 Multiples of Whole Numbers Answers | Exercise
- 2.5 Least Common Multiple Answers | Exercise
- 2.6 Greatest Common Factor Answers | Exercise

Topic 13: Volume of Solids

- 13.1 Volumes of Prisms Answers | Exercise
- 13.2 Volumes of Cylinders Answers | Exercise
- 13.3 Volumes of Pyramids Answers | Exercise
- 13.4 Volumes of Cones Answers | Exercise

Topic 14: Angles, Similarity, and Symmetry

- 14.1 Angles Answers | Exercise
- 14.2 Similar Figures Answers | Exercise
- 14.3 Line Symmetry Answers | Exercise
- 14.4 Rotational Symmetry Answers | Exercise
- 14.5 Triangles Answers | Exercise

Topic 15: Data Analysis

Basic Skills Handbook

Topic 1: Whole Numbers

- 1.1 Rounding Numbers Exercise | Answers
- 1.2 Adding and Subtracting Exercise | Answers
- 1.3 Multiplying Exercise | Answers
- 1.4 Dividing Exercise | Answers
- 1.5 Counting and Comparing Objects Exercise | Answers
- 1.6 Counting Objects Exercise | Answers
- 1.7 Adding and Subtracting Whole Numbers Exercise | Answers

Topic 2: Factors and Multiples

- 2.1 Factoring Exercise | Answers
- 2.2 Divisibility Tests Exercise | Answers
- 2.3 Prime Numbers Exercise | Answers
- 2.4 Multiples Exercise | Answers

Topic 11: Two-Dimensional Figures

- 11.1 Angles Exercise | Answers
- 11.2 Rectangles and Triangles Exercise | Answers
- 11.3 Parallelograms and Trapezoids Exercise | Answers
- 11.4 Circles Exercise | Answers

Topic 12: Perimeter and Area

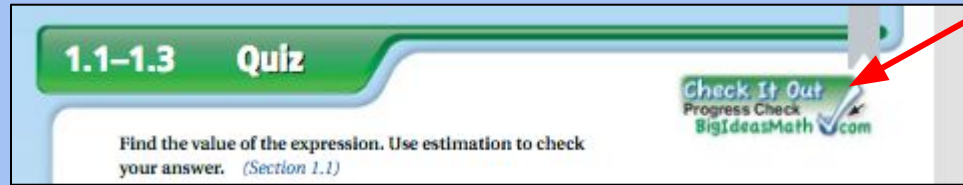
- 12.1 Perimeter Exercise | Answers
- 12.2 Area Exercise | Answers
- 12.3 Circumference of a Circle Exercise | Answers
- 12.4 Area of a Circle Exercise | Answers
- 12.5 Related Areas Exercise | Answers

Topic 13: Surface Area

- 13.1 Three-Dimensional Figures Exercise | Answers

Looking for MORE Useful BIG IDEAS Tools?

More help is available at “Check It Out”. Utilize the Progress Checks throughout each chapter!



These are online practice quizzes with instant feedback on how you did!

Quiz 1.1-1.3

Multiple Choice

Identify the choice that best completes the statement or answers the question.

Determine the operation you would use to solve the problem. Do not answer the question.

1. The Eagles basketball team scored 42 and 54 points in their first two games. By how many points did they improve in their second game?

a. subtraction
b. addition
c. multiplication
d. division

Find the value of the expression. Use estimation to check your answer.

2. $2554 + 623$

a. 3197
b. 2977
c. 3177
d. 1931

3. 3979

$\begin{array}{r} -3308 \\ \hline \end{array}$

a. 871
b. 691
c. 7287
d. 671

4. $6480 \div 120$

a. 54
b. 49
c. 57
d. 6600

Write the product as a power.

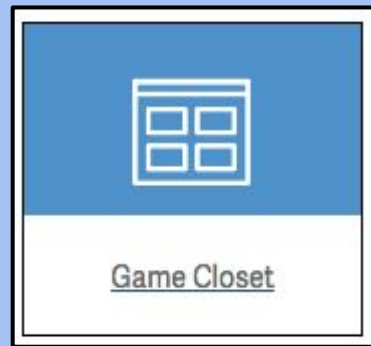
5. $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$

a. 262,144
b. 8^6
c. 8×6
d. 6^8

Check Your Work

Do You Learn BEST by Playing GAMES?

Experience the “Game Closet”, organized by topic.



Big Ideas Math Game Closet (Middle School)

Coordinate Plane

Six in a Row: [Spanish](#) | [English](#)

Data Analysis

M and M and M: [Spanish](#) | [English](#)

Decimals

Name the Number: [Spanish](#) | [English](#)

Expressions and Equations

A Trick for You: [Spanish](#) | [English](#)

Let's Race: [Spanish](#) | [English](#)

Tic-Tac-Toe: [Spanish](#) | [English](#)

Fractions, Decimals, and Percents

I Have... Who Has... 2: [Spanish](#) | [English](#)

Operations with Decimals

Amazing Decimals: [Spanish](#) | [English](#)

Let's Go Shopping: [Spanish](#) | [English](#)

Operations with Fractions

Fun with Fractions: [Spanish](#) | [English](#)

Pick Your Fractions: [Spanish](#) | [English](#)

Order of Operations

5 is Alive: [Spanish](#) | [English](#)

6 Sticks: [Spanish](#) | [English](#)

7 Not 11: [Spanish](#) | [English](#)

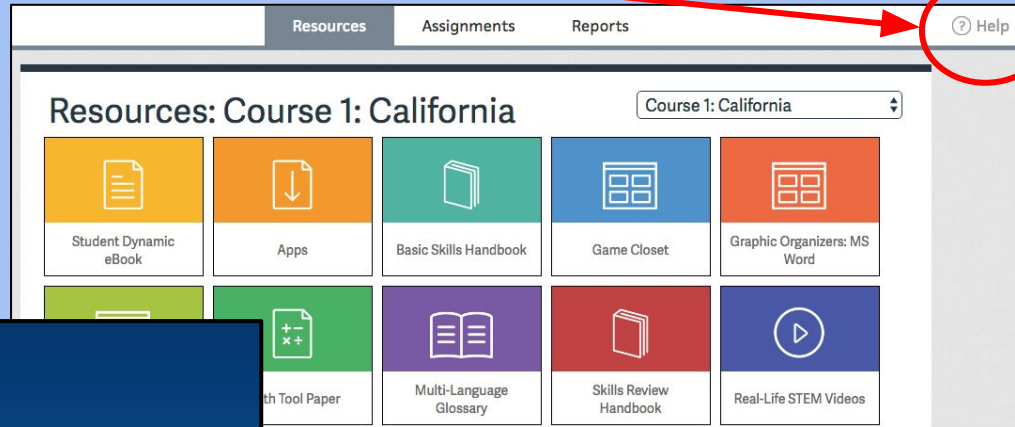
8 is Great: [Spanish](#) | [English](#)

9 is Fine: [Spanish](#) | [English](#)

Can 3 = 2?: [Spanish](#) | [English](#)

What Do You Do When ALL Else Fails?

“Live Tutorial Chat” will get you through the tough spots, Sunday through Thursday, from 4pm to 12am ET (Eastern Time).



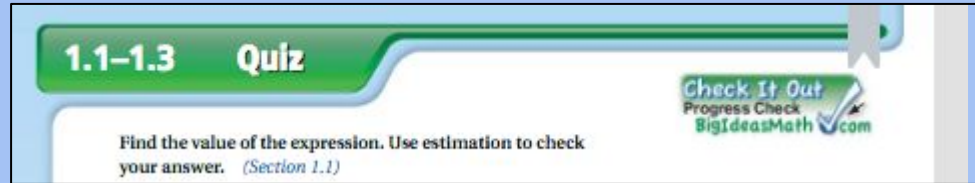
Is it Time to STUDY for Your Test?



#1) Review your notes and homework problems for each section to be tested.

#2) Rework ALL of the homework problems you missed.

#3) Take an online practice quiz.



#4) Study the “Chapter Review” and/or take the “Chapter Test” from your book at the end of the chapter.

Are YOU Prepared for Your Assignment Check?

#1) Are all of your homework assignments labeled correctly, with the lesson, page, and problem #?

#2) Did you copy the problem (or take notes for the word problems) and show all of your work?

#3) Did you correct the problems that you marked wrong?

HELPFUL HINT: You can check and compare your assignments with a study buddy. If anything is missing, take the time to fix it now!

Assignment Checks Are a Piece of



This is what it will look like:

Math 6. Period _____ Date _____

ASSIGNMENT CHECK

3 points per box: 1) copy the problem; 2) correct work; 3) correct answer

Page # _____	Problem # _____	Page # _____	Problem # _____

Assignment Check
Chapter _____
Score: _____
15

You will have to COPY the problem, SHOW all work to SOLVE the problem, and circle/box your ANSWER.

You CAN be successful in MATH this year!

