

Cambridge Christian School 2017 -2018 Summer Reading and Math Assignment For students entering 6th Grade

Summer reading is an excellent way to prepare for a successful experience in 6th grade.

 This summer, you will choose ONE novel from the list below. After reading the novel, you will complete the reading reflection worksheet attached.
 This assignment is due on the first day of class.

Author Title

Alcott, Louisa May Little Women Armstrong, William H. Sounder

Avi Crispin: Cross of Lead

Babbitt, Natalie Tuck Everlasting

Banks, Lynne Reid The Indian in the Cupboard

Burnett, Frances Hodgson A Little Princess
Burnett, Frances Hodgson The Secret Garden
Cushman, Karen Midwife's Apprentice

Draper, Sharon Out of my Mind
E'ngle Madeline A Wrinkle in Time

E'ngle, Madeline The Arm of the Starfish
Estes, Eleanor The Hundred Dresses

Estes, Eleanor Ginger Pye

Gantos, Jack Joey Pigza Swallowed the Key

Graham, Kenneth Wind in the Willows

Herriot, James All Creatures Great and Small

Hickam, Homer October Sky

Jackson, Percy The Lightning Thief

Jacques, Brian Redwall (or any from series)

Kipling, Rudyard Jungle Book

Lewis, C.S. The Lion, the Witch, and the Wardrobe

Montgomery. L.M. Anne of Green Gables

North, Sterling Rascal

O' Dell, Scott Island of the Blue Dolphins

Paterson, Katherine Bridge to Terabithia

Rawls, Wilson Where the Red Fern Grows

Spyri, Joanna Heidi

2017-2018 Summer Reading Assignment for students entering 6th grade

Name
Reading Reflection Worksheet
This worksheet must be turned in the first week of school. Work on this as you read the book, so you do not forget the information. Read the entire worksheet before reading the book, so you know what to look for as you read the novel. Please remember that you are forming important first impressions and should answer these questions with excellence in both thought and presentation.
• Title of Book
• Author
Type / Genre of book
• What was the setting?
Time in history
Location
What would you say is the theme of this novel? (What was the main idea/point you think author was trying to make?)

•	List four characters in the novel and describe some character traits that stand out. You may use a circle thinking map to display the traits.			
1.	Character name :			
	Description of character traits :			
2.	Character name :			
	Description of character traits :			

	Character name :
I	Description of character traits :
-	
_	
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-	
-	
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-	
_	
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_	
-	Character name :
	Character name :

4. Stories have conflicts. Sometimes there are a few conflicts in a novel. Please choose one conflict or problem a character is facing. Explain what the conflict is and how the character approaches and/or resolves the conflict.
 Please write your favorite quote from the novel word for word. Put it in quotation marks. Include the page number. Then tell why you liked it and how it pertains to the novel.

Please express	what you liked best about	this book. Be as speci	fic as you
can.			

6th Grade Math 2017 Summer Review

YOU MUST KNOW YOUR MULTIPLICATION TABLES!!!

These 5th grade skills are a pre-requisite in order to be successful in 6th grade math. Please show your work for each problem on notebook paper, then write your answer to the right of the problems on this sheet. This review will be due the first day of class.

Find the sum or difference.

Find the product.

Find the auotient.

Write the next three terms in each pattern.

Write each mixed number as an improper fraction.

21.
$$1\frac{7}{8} =$$

22.
$$2\frac{3}{4} =$$

21.
$$1\frac{7}{8} =$$
 22. $2\frac{3}{4} =$ 23. $7\frac{1}{3} =$ 24. $8\frac{2}{3} =$

24.
$$8\frac{2}{3} =$$

Write each improper fraction as a mixed number in simplest form.

25.
$$\frac{17}{5} =$$

26.
$$\frac{18}{4} =$$

27.
$$\frac{36}{15} =$$

25.
$$\frac{17}{5} =$$
 26. $\frac{18}{4} =$ 27. $\frac{36}{15} =$ 28. $\frac{28}{21} =$

Write each decimal as a fraction or mixed number in simplest form.

Write each fraction or mixed number as a decimal.

33.
$$1\frac{7}{25}$$
 =

34.
$$\frac{3}{50} =$$

34.
$$\frac{3}{50} =$$
 _____ 35. $\frac{1}{125} =$ ____ 36. $2\frac{7}{8} =$ ____

36.
$$2\frac{7}{8} =$$

Write each fraction or mixed number as a percent.

37.
$$\frac{1}{2} =$$

38.
$$3\frac{7}{10} =$$

37.
$$\frac{1}{2} =$$
 38. $3\frac{7}{10} =$ 39. $\frac{7}{8} =$ 40. $2\frac{3}{4} =$

40.
$$2\frac{3}{4} =$$

Find the sum or difference and write in simplest form.

41.
$$\frac{1}{2} + \frac{3}{4}$$

41.
$$\frac{1}{2} + \frac{3}{4}$$
 42. $\frac{11}{16} - \frac{5}{16}$ 43. $\frac{9}{10} + \frac{1}{2}$

43.
$$\frac{9}{10} + \frac{1}{2}$$

44.
$$\frac{7}{8} - \frac{1}{4}$$

45.
$$\frac{7}{8} - \frac{3}{10}$$
 46. $\frac{5}{6} + \frac{3}{4}$

46.
$$\frac{5}{6} + \frac{3}{4}$$

47.
$$\frac{3}{8} - \frac{1}{3}$$

48.
$$\frac{1}{8} + \frac{1}{5}$$

Find the sum or difference and write in simplest form.

49.
$$14\frac{3}{10}-5\frac{1}{5}$$

50.
$$6\frac{3}{8} + 2\frac{1}{2}$$

51.
$$2\frac{1}{2} + 4\frac{1}{10}$$

49.
$$14\frac{3}{10} - 5\frac{1}{5}$$
 50. $6\frac{3}{8} + 2\frac{1}{2}$ 51. $2\frac{1}{2} + 4\frac{1}{10}$ 52. $21\frac{5}{8} - 18\frac{1}{3}$

53.
$$7\frac{1}{6} + 9\frac{7}{12}$$

54.
$$8\frac{1}{10} + 5\frac{2}{5}$$

55.
$$9\frac{1}{4} - 2\frac{1}{8}$$

53.
$$7\frac{1}{6} + 9\frac{7}{12}$$
 54. $8\frac{1}{10} + 5\frac{2}{5}$ 55. $9\frac{1}{4} - 2\frac{1}{8}$ 56. $19\frac{3}{4} - 19\frac{2}{5}$

Find the product and write in simplest form.

57.
$$\frac{3}{4} \cdot \frac{3}{5}$$

58.
$$\frac{1}{3} \times \frac{9}{10}$$
 59. $\frac{1}{12} \cdot \frac{3}{4}$

59.
$$\frac{1}{12} \cdot \frac{3}{4}$$

60.
$$\frac{3}{4} \times \frac{8}{9}$$

Find the quotient and write in simplest form.

61.
$$\frac{4}{5} \div \frac{4}{7}$$

62.
$$\frac{4}{7} \div \frac{1}{2}$$
 63. $\frac{3}{5} \div \frac{3}{4}$

63.
$$\frac{3}{5} \div \frac{3}{4}$$

64.
$$\frac{5}{6} \div \frac{1}{3}$$

Complete each statement.

65.
$$45 c = ____q t$$

69.
$$4\frac{1}{3}$$
 ft = _____ in.

70.
$$2\frac{3}{4}$$
 yd = _____ ft

Round each decimal to the underlined place.

Solve each equation.

76.
$$16 = y - 5$$
 $y = _____$

77.
$$2x = 10$$
 $x =$

Match the angle to the measurement.

_____ 79. Measures 180°

80. Measures between 0° and 89°

81. Measures between 91° and 179°

_____ 82. Measures 90°

A. Acute angle

B. Obtuse angle

C. Right angle

D. Straight angle

Identify each polygon according to the number of sides.

_____ 83. 3 sides

_____ 84. 4 sides

_____ 85. 5 sides

_____ 86. 6 sides

_____ 87. 7 sides

_____ 88. 8 sides

_____ 89. 10 sides

A. Decagon

B. Heptagon

C. Hexagon

D. Octagon

E. Pentagon

F. Quadrilateral

G. Triangle

Find the area and perimeter of each rectangle or square.

Perimeter -
$$P = 2\ell + 2w$$
 Area - $A = \ell \times w$

Area -
$$A = \ell \times u$$

90.
$$\ell = 12 \text{ cm}, w = 2 \text{ cm}$$

91.
$$\ell = 2.5 \,\text{m}, \ w = 2.5 \,\text{m}$$

92.
$$\ell = 4.5 \, \text{ft}, \ w = 0.75 \, \text{ft}$$

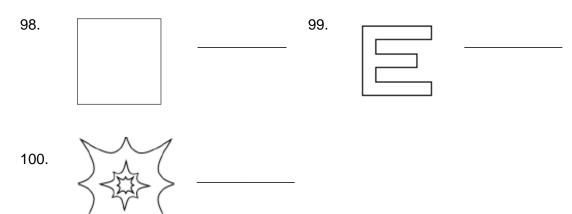
93.
$$\ell = 6 \text{ in.}, \ w = 6 \text{ in.}$$

Find the probability of each event. Simplify when necessary.

94. You pick a vowel from the letters in EVENT.

95.	You pick a month that begins with the letter J.	
96.	A number cube is tossed. What is the probability of rolling a 1, 3, or 5.	
97.	A spinner is labeled 1 - 6. What is the probability of spinning a 1 or 5.	

How many lines of symmetry does this shape have?



6th Grade 2017 SUMMER CHALLENGE MATH PACKET (Optional)

It's SUMMER!!! Hooray! Let the relaxation begin! I pray you will have a restful and rejuvenating 10 weeks off! I love summer, too, but what I don't love is the dreaded SUMMER BRAIN DRAIN for students. Did you know that students lose an average of 2.6 months of math skills over the summer and it takes an average of 6 weeks to recover those skills at the beginning of a new school year? We have SO much to do to prepare you for MIDDLE SCHOOL and I want to hit the ground running on August 10!

This CHALLENGE MATH PACKET is designed to help you maintain the skills you worked so hard to master in 5th grade while allowing you to have some fun in the process! Students who complete five or more hours of math-related activities over the summer will be rewarded. Please see the ideas below for suggestions. Don't stop at these, though! The sky is the limit with math practice. Come up with your own ideas to keep those math skills fresh!

(NOTE: THE 6TH GRADE SUMMER REVIEW DOES NOT COUNT TOWARD THIS CHALLENGE).

How does it work? It's as easy as:

- 1. Check out the ideas below to find some fun websites and activities. Don't forget...you can create your own activities too! As long as it is math related, it counts!
- 2. Document what you complete on the chart found at the end of this packet and have your parent initial each entry then sign at the end of the summer.
- 3. Hand in the signed and completed chart during the first week of school.

ON YOUR MARK...GET SET...GO!

Math Facts Activities:

Fact fluency is one of the first casualties of the long summer vacation. **YOU MUST KNOW YOUR MULTIPLICATION TABLES AND BE ABLE TO RECITE THEM EASILY!!**Here are some ideas to keep you multiplying like a pro:

Multiplication War: Use playing cards. Throw down two cards. The person who finds the product of the two cards first keeps the pair.

Keep those math facts fluent with fun on-line practice!

http://www.multiplication.com/games/all-games

Multiplication.com has some great games to play by alone or against other kids online!

https://www.superteacherworksheets.com/math-drills-minute.html

You can print out Mad Minutes to see how much you know at Super Teacher Worksheets.

https://www.education.com

You can find worksheets covering fractions, decimals, and more!

Other Online Games:

http://www.arcademics.com/

Arcademic Skill Builders is a great resource to refresh all math operation areas. Play arcade games to review basic operations, fractions, decimals, and working with money!

http://www.math-play.com/Factors-and-Multiples-Jeopardy/Factors-and-Multiples-Jeopardy.html

Factors and Multiples Jeopardy: Remember the difference between factors and multiples with this fun on-line game!

http://www.mathplayground.com/math manipulatives.html

Go to the Math Playground to practice skills like measuring angles, working with fractions, and creating congruent or similar shapes using transformations

http://teacher.scholastic.com/maven/

For fun logic games, try out Math Maven's Mysteries!

Other favorite sites include:

http://www.hoodamath.com/

http://www.jmathpage.com/

http://www.puzzles.com/products/rushhour/rhfrommarkriedel/Jam.html?1

http://www.setgame.com/set/puzzle

Board Games

There are fun games you can play to pass a rainy day... and practice your math, too! You probably already have many of them at home. Here are just a few that are great for math practice!

Basic Operations: Patterns and Geometry:

Monopoly Sequence
Life Blokus
Payday Geoshapes
S'Math Quirkle

Tripoly

Coordinate Graphing:Probability:BattleshipDeal or No Deal?

Logical Reasoning:Strategy Games:ClueMancalaStrategoOthelloSuDoKuConnect 4

Chess and Checkers

Math with Cards and Dice

Almost everyone has a deck of cards in their house, and there are so many ways a deck of cards can be used to practice math skills! Check out the activities to reinforce math concepts found on this website: http://www.k5chalkbox.com/math-card-games.html

Add some dice – and have more fun! Here's a great website with 4 great games you have probably already played in school: http://teacher.scholastic.com/lessonrepro/lessonplans/grmagam.htm

Other real-life math activities:

Take a Trip...maybe just down the street!

Before you take off on that family trip, help your parents and get in on the planning! Here are a few examples of where math can be used when taking that family trip:

Use an atlas and figure out how many miles you'll be driving – the scale of miles is a great example of proportion and measurement used in real life!

What's your car's fuel efficiency? Add to find out the total cost to fill up the tank throughout your trip; divide to calculate the miles driven per gallon of gas; multiply to determine the cost of a fill-up based on your expected travel distance... is it time to purchase a hybrid vehicle?

How fast did you get there? Use the car's trip odometer to find out how many miles you've driven, and determine your average speed.

Where will you be? Using a map, calculate where you will you be if you travel 20, 50, 100, or 1,000 miles from home.

How many ways? As you're exploring your neighborhood during the summer, use a map to determine how many routes can you take to the school, the grocery store, the mall, or your friend's house? Which way is the shortest? The longest? Create a table to organize your data.

Gardens of Eating... and Math!

Besides providing a great source of delicious summer vegetables and fresh flowers, gardens grow great opportunities to show practical applications for math.

How big is that garden? How much fencing is needed to keep out the deer (or worse...armadillos)? How much fertilizer do you need to keep the garden (or yard) growing?

How much mulch do you need to order if you want to put it down 3" thick in your flower beds?

What is the weight of that prize-winning tomato or pumpkin? How many peppers are on the pepper plant? If you need to keep your bean plants 3 inches apart, how many plants will grow on a 12 foot row? How many seeds should you plant?

Go to the supermarket or farmer's market and find out the cost of fresh vegetables you can grow at home. How much money will you save if you grow it yourself?

Take me out to the ballgame!

Take in a summer baseball game – either at the ballpark or on TV. Baseball's a natural place to see math in action – from a pitcher's ERA to a hitter's on-base percentage. Record the events of the game using a scorecard (print one here: http://baseballscorecard.com/downloads/Scorecard-c.pdf). To find out all about how to keep score, go to Patrick McGovern's fantastic website: The Baseball Scorecard (http://www.baseballscorecard.com/). Then, calculate some statistics about your favorite players (http://www.baseballscorecard.com/statistics.htm)!

Take a trip to the grocery store!

Estimate the total bill based on prices of what you are purchasing.

How much does that bunch of bananas weigh? How much will it cost?

What is the unit price of your favorite box of cereal? What is the unit of measurement, and how much is the total cost of that box?

In the kitchen – cook up some math!

Measure all of the ingredients (especially the liquids in the glass measuring cups).

Challenge yourself to double the recipe or cut the recipe in half – fractions are everywhere!

Let's eat!

Prepare a meal or dish for the family. Before you go to the supermarket, find a recipe, write what you need and how much. At the supermarket, choose the best-priced option.

Back-To-School

You've gotten that list of needed school supplies from the CCS website... how much will they cost? Use the advertisements in the Sunday newspapers to find the best deals... and calculate how much you'll spend to get set for the new school year. The costs add up... do you really need that new backpack, or will what you had last year still work for you?

Have your grown three inches? Need new uniforms? Check out <u>www.rissebrothers.com</u> (you will need to register on this site so make sure you have a parent's permission) and estimate how much your new clothes will cost. How close were you to the total?

Get ACTIVE

Record-breakers: Use a stopwatch to time yourself running, roller blading, swimming, or biking. Then try to beat your time. Be sure to keep the distance you're moving the same for each trial (you may need a partner for this). Graph the results..

Read Some Books...About Math!!

And since you need to keep those reading skills fresh too, how about combining reading with math? Check out these great titles!

<u>Title</u> <u>Author</u>

The I Hate Mathematics! Book
The Phantom Tollbooth
Burns, Marilyn
Juster, Norton

Janice Van Cleave's Math for Every Kid: Van Cleave, Janice Pratt

Easy Activities That Make Learning

Math Fun

G Is for Googol: A Math Alphabet Schwartz, David M.

Book

Janice Van Cleave's Geometry for Every Van Cleave, Janice Pratt

Kid: Easy Activities That Make

Learning Geometry Fun

Math Curse Scieszka, Jon Brown Paper School Book: Math for Burns, Marilyn

Smarty Pants

This Book Is about Time Burns, Marilyn Math for Kids and Other People, Too! Pappas, Theoni

There are many other ways to use math in real life over the summer. These are just a few suggestions. Feel free to make up your own ideas! Just remember to keep track of what you do. There's a chart on the next page to help you. Have a great summer... and don't forget – math is everywhere!

SIXTH GRADE SUMMER MATH CHALLENGE LOG

Date	Type of Activity	Specific Activity Description	Amount of time in minutes	Parent initial	
7/23	Board Game	Played Monopoly and I was the banker.	45 min	JWW	
Total time in minutes:					

Total time in minutes: Total time in hours (minimum 5 hours for reward):					
My child l	has completed	the number of hours listed above	doing math act	ivities.	
Parent Sign	nature:				