

PreAP Requirements for Incoming 6th graders:

_____ One Math Project & Two Math Skills Practice

_____ One Reading project over the book *Esperanza Rising*

*****Choices are on the following pages.

All projects are due the first day of school.

6th Grade Summer Learning

****REGULAR:** Complete 1 of the 9 choices for each week to earn summer incentive trip. (Can earn up to 5)
****Pre-Ap:** must complete the 3 mandatory choices.

<input type="checkbox"/> Be the Teacher... Design a study guide that reviews what a student needs to know about determining equivalent forms of fractions, and decimals. Include 10 practice problems and an answer guide. (show work on practice problems)	<input type="checkbox"/> It's the Proper Way to be Improper... What is a time that improper fractions might be useful? Write a short story from the point of view of an improper fraction and explain your usefulness to the world. (must be at least 75 words)	<input type="checkbox"/> Skills practice, Part 1... Work out problems from packet. Be sure to show all work and not just answers. (Must do for Pre-Ap)
<input type="checkbox"/> Create your own... Create a brochure that teaches the steps for converting a fraction to a decimal and a decimal to a fraction. Must Include: Title, definitions, models, pictures and directions on how to convert a fraction to a decimal and a decimal to a fraction, include Mixed Numbers.	<input type="checkbox"/> I am a Veterinarian SUMMER 2018 (Must do for Pre-Ap)	<input type="checkbox"/> Simplest Form... Choose a fraction that is in its simplest form. Make 15 new equivalent fractions. Show scale factors.
<input type="checkbox"/> Skills practice, Part 2... Work out problems from packet. Be sure to show all work and not just answers. (Must do for Pre-Ap)	<input type="checkbox"/> It's That Time... Make 7 clock faces. Divide a face into halves, thirds, fourths, sixths, and twelfths. Tell how many minutes there are in 1/2 hour, 1/3 hour, 1/4 hour, 1/6 hour, 1/10 hour, and 1/12 hour.	<input type="checkbox"/> Fraction game... Design a board game. The game must include a board, game pieces, minimum of 30 cards, answer key, instructions on how to PLAY the GAME, instructions on how to DO THE MATH, goal of the game and vocabulary.

6th grade

Math Summer Learning





Congratulations you are a veterinarian and will be opening up your very own animal clinic! You have a few things you must figure out before you can start seeing animals. Let's begin!



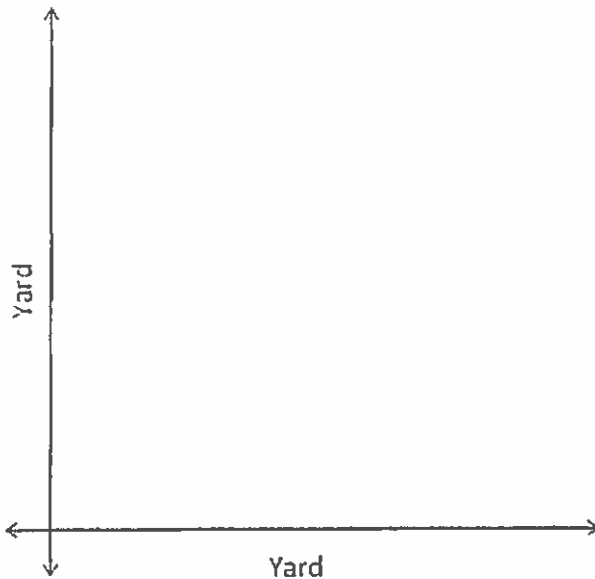
Name your animal clinic

Decide where your clinic is going to be located

List the types of animals your clinic specializes in



Sketch the border of your clinic and determine the area and perimeter



Perimeter

Area

You have \$100,000 to get some medical supplies for your clinic. You will need things like veterinarian tables, medical kits with bandages and needles, medical machines, and antibiotics.

Write an expression that represents the total cost if you decide to buy 3 veterinarian tables (T), 100 medical kits (K), 3 medical machines (M), and 250 antibiotics (A).

The tables you would like to purchase are sold in two different places. You must decide which place offers the best value.

Option 1

2 table for \$2,500

Option 2

3 table for \$3,705

Which option should you choose? How much will each table cost? Explain.

Fill in any missing information from the chart.

Cost of each item:	
veterinarian tables (T)	
medical kits (K)	\$129
medical machines (M)	\$14,520
antibiotics (A)	\$55

Using the expression you wrote at the top of the page, determine how much money you are going to spend on medical supplies.



Do you have enough money for all your medical supplies?





If so how much money do you have left over?





□□□□□□□□□□□□□□□□□□□□



Now that you have your medical supplies in order, let's talk salary



The average veterinarian makes near \$80,000 per year Based on your education and location you will be making 18% more than this amount



How much money will you make per year?





If you worked 40 hours a week for 50 weeks out of the year, how much would you be making per hour? (Round to the nearest cent if necessary)





Write an expression that represents how much you would make per hour on holidays if you earned time and a half





How much would you make per hour on holidays?







Now that we have figured out your salary, let's talk about the animals

You plan to see 200 animals a week on average. Of the 200

- $\frac{3}{5}$ will be dogs
- 25% will be cats
- The remaining fraction will be other types of animals

Fill in the table below to find out how many animals are seen each week in each category

Animals Seen Each Week	
Type of Animal	Number of Animals
dogs	
cats	
other	

What fraction represents the number of *other* animals seen each week



Use the area below if extra room for scratch work is needed

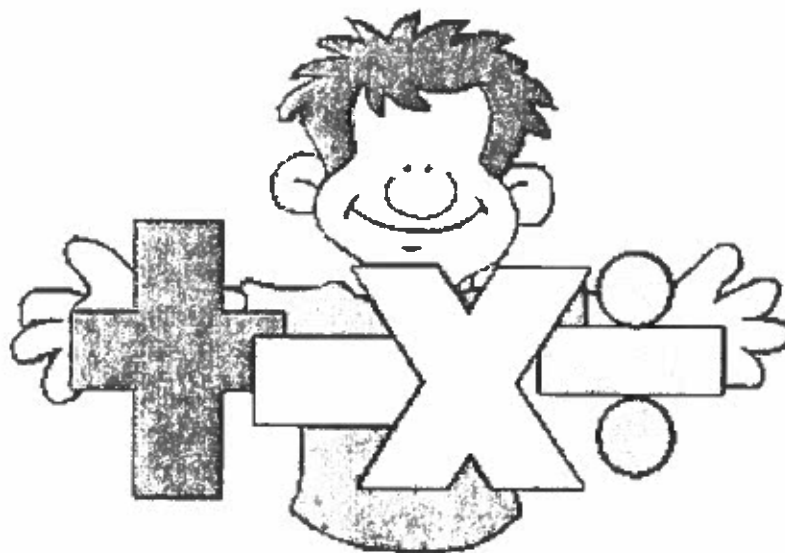
Name _____ Date _____

Summer Learning

6th grade

Math

Part 2



Write two fractions that are equivalent to the given fraction.

1. $\frac{3}{7}$

2. $\frac{1}{9}$

Tell whether the fraction is in simplest form. If not, simplify it.

3. $\frac{7}{84}$

4. $\frac{24}{32}$

5. $\frac{9}{14}$

6. $\frac{36}{48}$

Find the LCM of the numbers.

7. 4, 18

8. 5, 6, 12

Rewrite the number as an improper fraction or mixed number.

9. $6\frac{1}{9}$

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

10. 0.85

11. 1.12

Find the sum or difference. Write your answer in simplest form.

12. $\frac{5}{9} + \frac{1}{9}$

13. $\frac{4}{15} + \frac{2}{3}$

14. $14\frac{1}{4} - 6\frac{1}{8}$

15. $3\frac{4}{7} + 8\frac{6}{7}$

16. $8\frac{2}{5} - 5\frac{4}{5}$

Find the product or quotient. Write your answer in simplest form.

17. $\frac{5}{9} \cdot \frac{3}{4}$

18. $3\frac{5}{7} \cdot 4\frac{3}{8}$

19. A recipe calls for $2\frac{3}{4}$ cups of flour. You already measured $1\frac{2}{3}$ cups. How much more flour do you need?

20. You bought 9 feet of elastic to make hair ties. Each hair tie needs $3\frac{3}{8}$ inches of elastic. How many hair ties can you make?

Order the numbers from least to greatest.

21. 0.9076, 0.879, 0.937, 0.8912

22. 7.01, 7.2, 7.15, 7.005

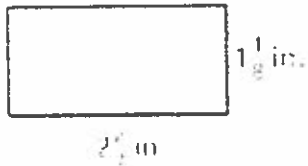
23. Order the fractions from least to greatest: $\frac{7}{8}$, $\frac{3}{4}$, $\frac{8}{6}$, $\frac{4}{10}$.

24. Order the numbers from least to greatest: $\frac{9}{5}$, $2\frac{2}{3}$, $\frac{5}{2}$, $\frac{7}{4}$

Find the area of the rectangle.

Find the area of the rectangle.

25.



$5\frac{1}{3}$ yd

26.

$2\frac{1}{8}$ yd



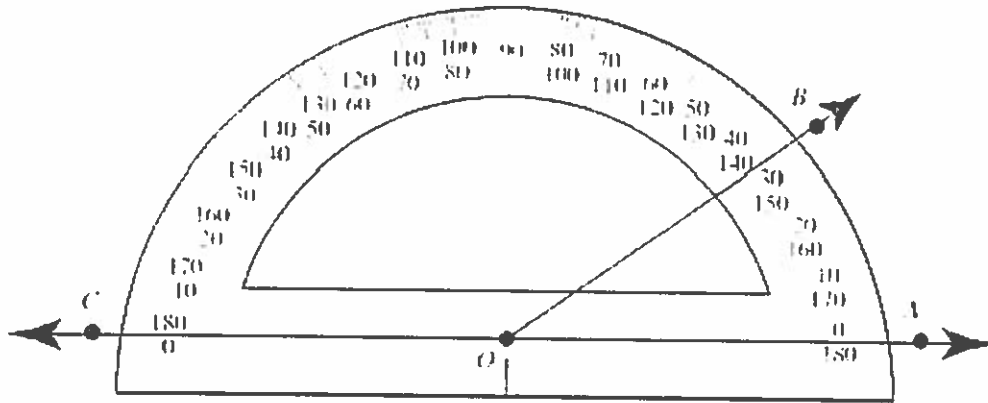
a. $10\frac{1}{12}$ yd²

b. $12\frac{1}{4}$ yd²

c. $2\frac{1}{4}$ yd²

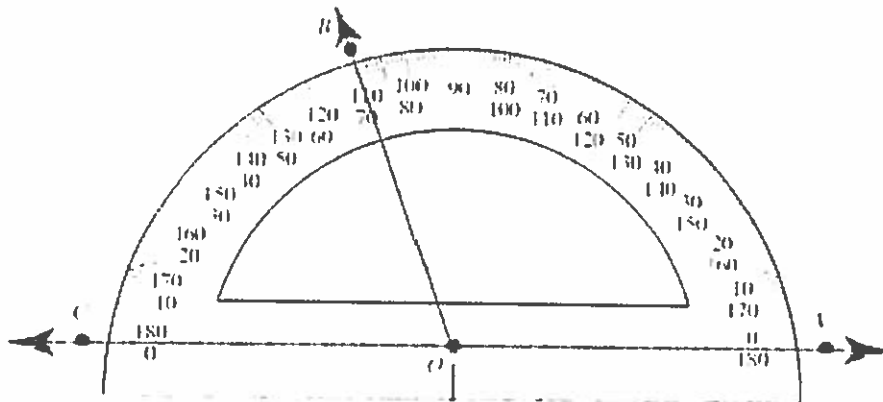
d. $11\frac{1}{3}$ yd²

27. What is the measure of $\angle AOB$?



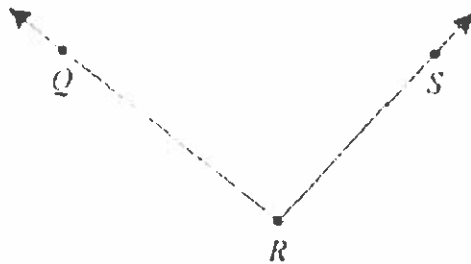
- a. 155° b. 35° c. 145° d. 45°

28. What is the measure of $\angle AOB$?



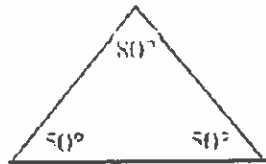
- a. 70° b. 110° c. 100° d. 80°

29. Which name cannot be used for the angle shown below?



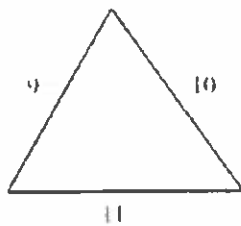
- a. $\angle SRQ$ b. $\angle QRS$ c. $\angle R$ d. $\angle RQS$

30. Classify the triangle by its angles.



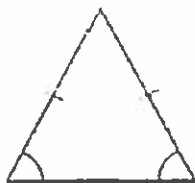
- a. acute triangle b. right triangle c. obtuse triangle

31. Classify the triangle by its sides.



- a. isosceles b. equilateral c. scalene

32.



- a. isosceles b. equilateral c. scalene

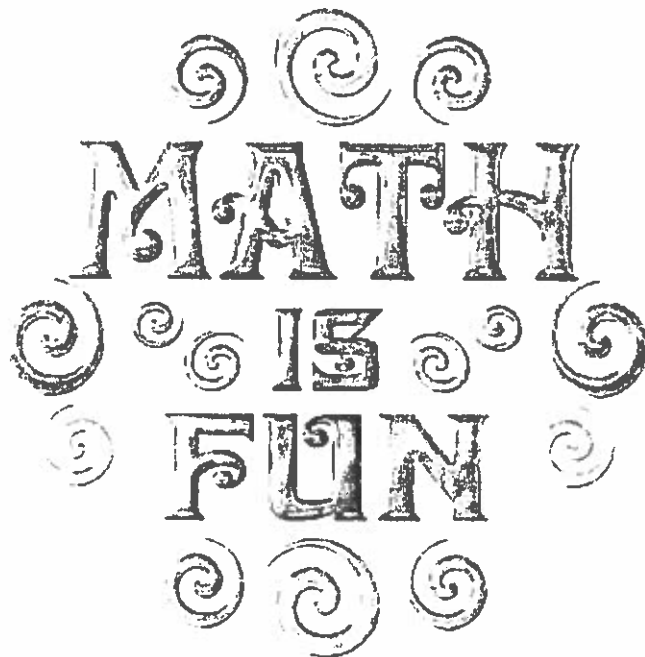
Name _____ Date _____

Summer Learning

6th grade

Math

Part 1



Complete the statement with $<$, $>$, or $=$.

1. $4.5 \underline{\quad} 5.4$

2. $16.64 \underline{\quad} 16.57$

3. $0.32 \underline{\quad} 0.320$

Find the sum, difference, product, or quotient.

4. $162 \div 6$

5. $273 - 148$

6. 37×22

7. $407 - 53$

8. $18 \div 294$

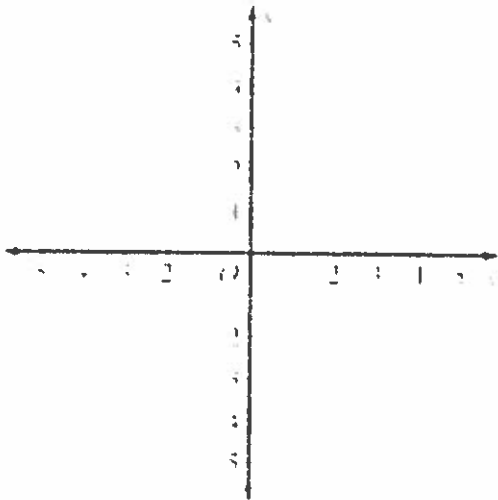
Evaluate the expression.

9. $34 - 16 \div 7$

10. $14 + 8 \div 2$

11. $7 \times 6 + 12 \div 4$

Graph the points on the same coordinate grid.



12. $(4, 0)$

13. $(-3, 1)$

Find the mean, median, mode(s), and range of the data.

14. Number of pieces of mail: 4, 8, 6, 2, 0, 3, 7, 5, 8, 2

15. The data show the price charged by roadside stands for a dozen ears of corn. Find the mean, median, mode(s), and range of the data.
Dollars: 2, 2, 3, 4, 4, 3, 3, 4, 4, 3, 2, 2

Write the number as a decimal.

16. eighty-nine ten thousandths

17. twenty-six and fourteen hundredths

Write the decimal in words.

18. 10.362

19. 0.0793

20. Write 13.015 in words.

Find the sum or difference.

21. $4.3 + 8.9$

22. $15.6 - 7.7$

23. $9.41 - 5.4$

24. $0.0125 - 0.137$

25. $\frac{11}{24} + \frac{7}{24}$

26. $\frac{2}{5} - \frac{7}{20}$

27. $8\frac{9}{16} - 5\frac{5}{8}$

28. $15.2 + 18.71$

Find the product or quotient.

29. 3×7.64

30. 4.3×0.005

31. $0.45 \div 0.09$

32. 1.9×7.2

33. $101.47 \div 3.65$

34. $1\frac{1}{5} \times 1\frac{1}{3}$

Find the product or quotient. Use mental math

35. 21.3×100

36. 58.74×0.01

37. $715 \div 1000$

Find the GCF of the numbers.

38. 16, 28

39. 24, 38

40. 36, 81

41. 28, 76

Overview

READING PROJECTS: Choose One project from the list below. *The project must relate to the novel Esperanza Rising.*

- A) Book Project #1: Key Event Comic Strip
- B) Book Project #1: Postcard from the Main Character
- C) Book Project #2: Medal of Honor Nomination Letter

READ the detailed directions and guidelines that follow for project selections and refer to the rubric (last page) for specific reading project requirements.

Project due date: First day of School. You WILL turn your projects in to your Reading Teacher on the FIRST DAY OF SCHOOL. This will be your first Reading grade for the new 2018-2019 school year. Your presentation will be during the first week of school.

Note: As this is part of summer curriculum expectations, there will be no instructional class time allotted for the completion of summer reading project.

Book Project #1: Key Event Comic Strip

Directions: Upon completion of reading a selected novel, students may choose to create a comic strip based on a key event from the book.

Step 1:

On an 8.5"x11" sheet of white computer paper, construction paper, or small poster board, create 6 or more panels for your comic strip (you may print out the template included below if you'd like, or you can create your own). The comic strip must fill the entire page.

In the first panel, include the title and author of your book and your name.

Step 2:

Beginning with the second panel, create a comic that demonstrates your understanding of a key event from the book where the main character, also known as the protagonist, was presented with a difficult challenge.

The comic must have meaningful dialogue or detailed captions in each panel that pertain to the key event. Dialogue may be typed or neatly handwritten.

Step 3:

Incorporate color and images into every panel of the comic strip. Images may be drawn by hand or created digitally.

Step 4:

Complete the reflection prompts (*located below*) on a separate sheet of paper and attach to your comic. Please use complete sentences.

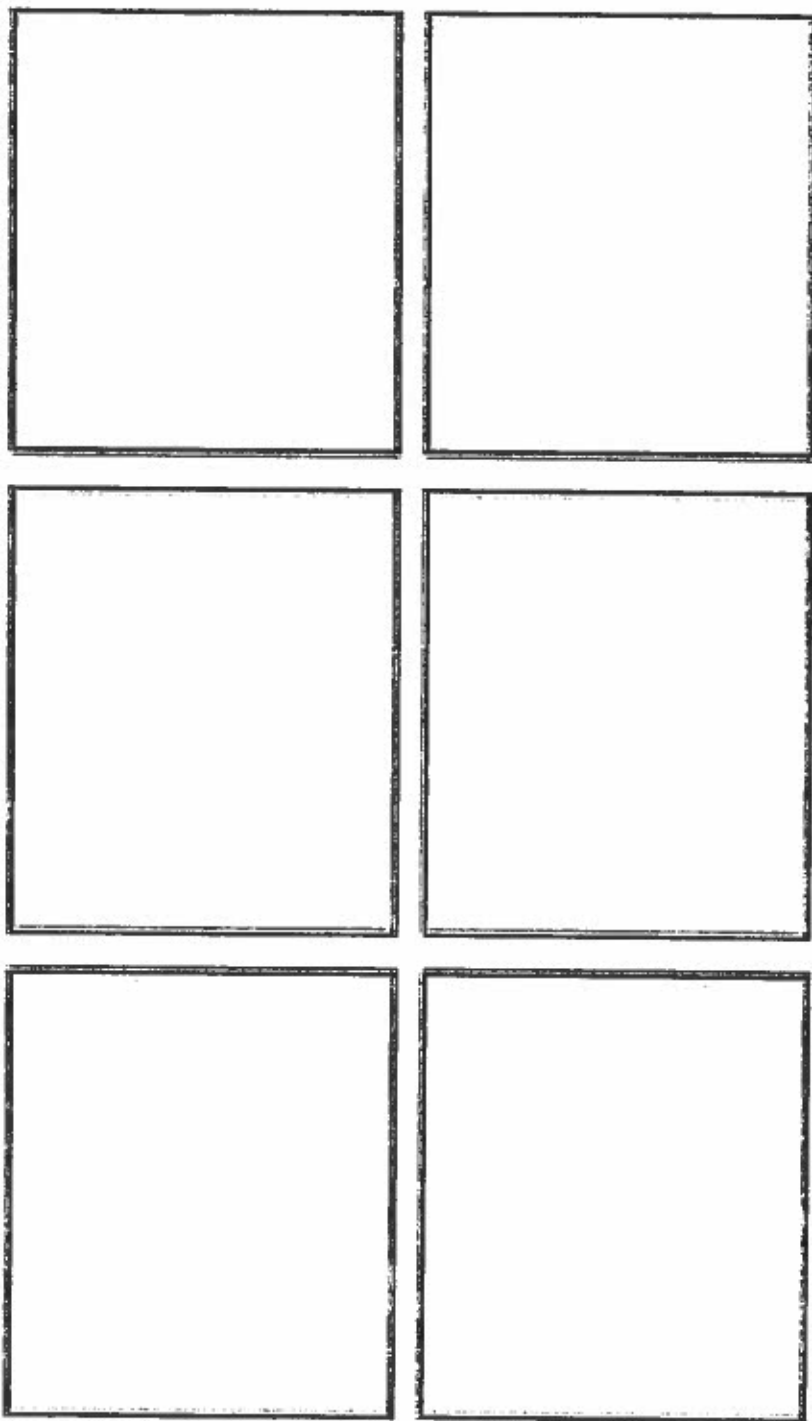
Reflection Questions for Project #1:

What was the main conflict in the novel? Use specific details/examples from the book to support your answer.

How did the main character overcome the challenges they faced in the book? Use specific details from the book to support your answer.

What did the main character learn from the challenges they faced? How do you know? Support your answer with specific details/examples from the book.

Comic Strip Story



Book Project #2: Postcard from the Main Character

Directions: Upon completion of reading the novel students may choose to create a detailed postcard from the main character of the book.

Step 1:

Draw a picture(s) or create a collage on one side of an unlined 8 1/2 X 11 paper that illustrates an important setting in the book. For the visual(s) on the front of your postcard, students may draw illustrations, use digital graphics, or cut pictures from magazines.

Step 2:

First, identify three important events from the novel. Next, assume the identity of the main character and write a postcard to another character in the novel that describes your reaction to those three key events. Make sure to describe the events in the postcard using specific details from the book and describe your reaction to the events. Write in 1st person point of view. The postcard message may be typed or neatly written.

Step 3:

Lastly, 1) sign that character's name at the end of the message, 2) postmark your card by using the time and setting from the novel, and 3) include a "stamp" in the upper-right hand corner. *See example on the next page.*

Step 4:

Complete the reflection prompts (*located on the next page*) on a separate sheet of paper and attach to your postcard. Please use complete sentences.

Reflection Questions for Project #2

What was the main conflict in the novel? Use specific details/examples from the book to support your answer.

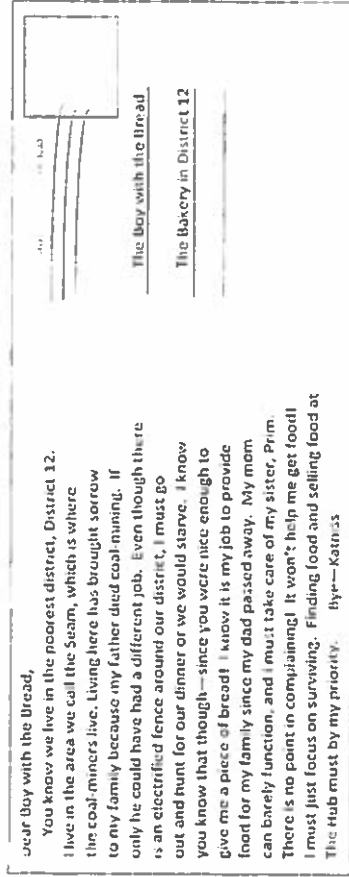
How did the main character overcome the challenges they faced in the book? Use specific details from the book to support your answer.

What did the main character learn from the challenges they faced? How do you know? Support your answer with specific details/examples from the book.

Postcard Example:

The front of the post should have the picture or collage.

Example of text on the back of the postcard:



Book Project #3: Medal of Honor Nomination Letter

Directions: Upon completion of reading the selected novel, students may choose to compose a Medal of Honor Nomination letter.

Step 1:

As you read, consider the challenges the main character encounters. What are those challenges and how does the character face them? How do these challenges help shape that character into a hero? Include important lines and passages from the book in your notes.

Step 2:

Compose a well-written letter to the Medal of Honor Awards Committee informing them why the main character from this novel should receive the Medal of Honor award for their heroism. Choose 2-3 lines or passages from the novel to include as textual evidence which supports your nomination of the character for hero status. This letter may be typed or neatly written in pencil, or black or blue ink.

Step 3:

Decorate (using the template below) or create your own medal of honor/award. The medal/award needs to contain color and visuals. For the visuals, students may draw illustrations, use digital graphics, or cut pictures from magazines.

Step 4:

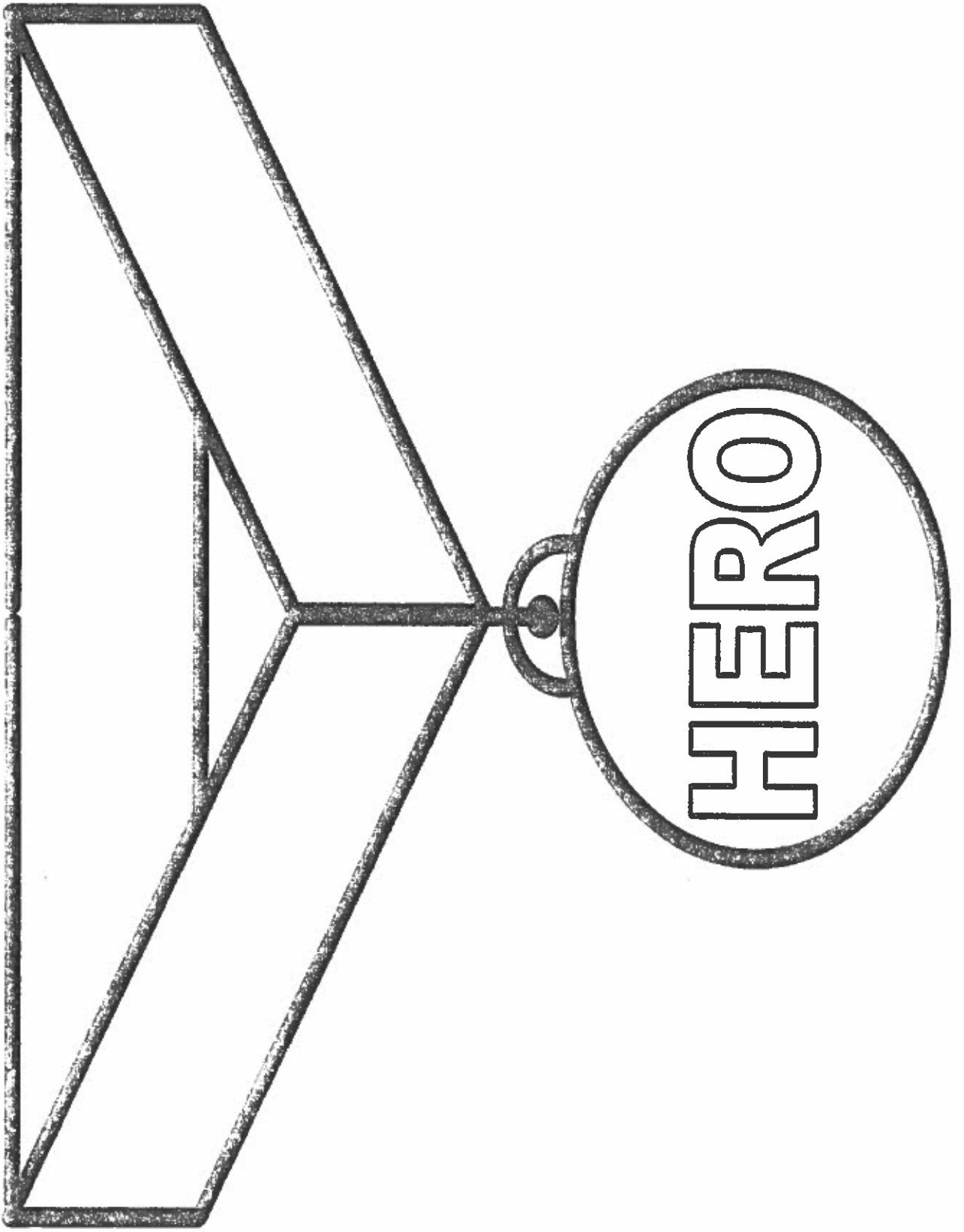
Complete the reflection prompts (*located on the next page*) on a separate sheet of paper and attach to your letter. Please use complete sentences.

Reflection Questions for Project #3

What was the main conflict in the novel? Use specific details/examples from the book to support your answer.

How did the main character overcome the challenges they faced in the book? Use specific details from the book to support your answer.

What did the main character learn from the challenges they faced? How do you know? Support your answer with specific details/examples from the book.



Story Summer Reading Project Rubric

Criteria	Highly Proficient	Proficient	Partially Proficient	Minimally Proficient
<p>Presentation and Format</p>	<p>Exceptionally neat, typed or legibly handwritten; extremely colorful, includes thoughtful and relevant visuals; follows all formatting guidelines; exceeds project expectations</p>	<p>Neat, legibly hand/written or typed; colorful, includes relevant visuals; follows most formatting guidelines; meets project expectations</p>	<p>Handwritten, somewhat legible; minimal color, little detail in illustrations; follows some formatting guidelines; approaches, but does not meet, project expectations</p>	<p>Difficult to read, illegible; no color, missing pictures or illustrations; does not follow formatting guideline; falls far below project expectations</p>
<p>Content</p>	<p>Demonstrates a deep and accurate understanding of and connection to the novel; project contains insightful, original ideas and carefully selected, rich details from the text to support understanding of the book</p>	<p>Demonstrates an accurate understanding of and connection to the novel; project contains original ideas and relevant details from the text to support understanding of the book</p>	<p>Demonstrates a limited understanding of and connection to the novel; project contains vague or general ideas and minimal details from the text to support understanding of the book</p>	<p>Demonstrates minimal or no understanding of or connection to the novel; project contains little to no ideas and is missing details from the text to support understanding of the book</p>
<p>Conventions</p>	<p>Project contains very few errors in grammar, spelling, punctuation and capitalization</p>	<p>Project contains some errors in grammar, spelling, punctuation, and capitalization</p>	<p>Project contains frequent errors in grammar, spelling, punctuation, and capitalization</p>	<p>Project contains numerous errors in grammar, spelling, punctuation, and capitalization, making it difficult to read or understand</p>