

Name: _____

MATH 6 SCRAPBOOK PROJECT

DUE WEDNESDAY, SEPTEMBER 12, 2018

You will create a scrapbook with the following information listed below on a separate page. Your project will be graded on accuracy, neatness, grammar, and overall creativity. **NO LATE PROJECTS!** Your scrapbook must be neat and colorful. Projects can be **neatly** handwritten or typed. If you create it digitally, you can use Slides, PowerPoint, Prezi, or another presentation website. **PLEASE DO NOT WAIT UNTIL THE LAST MINUTE TO COMPLETE THIS PROJECT!**

To submit your project, join the 7th Grade Google Classroom using the code zn50s03. Please share your final project to the google classroom. If you choose to create your project by hand, please add a comment stating this and press submit assignment.

1. Title Page- On this page, you must display the title: **Scrapbook Project**, your name, the due date (September 12, 2018), and your 6th grade teacher's name must also be included.

2. Table of Contents- On this page, you must list all the topics that will be included in your booklet and the page number each topic can be found on.

3. The Order of Operations- On this page, you must answer the following questions, **SHOWING YOUR WORK FOR EACH.**

a. $(19-7)^2 - 8 \times 3 + 4 \times 3 - 5$

c. $3^3 + 14 \div 7 \times 3$

b. $8^2 - (4^2 \div 8) \div 2 \times 2$

d. $2^2 \times 7 - 4 \times 6 \div 2$

4. Fraction, Decimal, and Percent- You must explain **IN SENTENCES** how to:

a. Change a fraction to a decimal **and provide two examples!**

b. Change a percent to a fraction **and provide two examples!**

c. Change a decimal to a percent **and provide two examples!**

5. Equations: Solve these equations (**Show all of your work!**)

a. $-15g = 15,135$

b. $\frac{m}{11} = 450$

c. $n - (-55) = 128$

d. $j + 3.87 = 7$

6. Integers- On this page, you must provide real world situations for the following integers: (8, -23, 39, -3, -12). Also, draw a number line and label where the negative and positive integers are located.

7. Inequalities- On this page, you must explain how to write an inequality. What signs do you use? What words are associated with those signs? Then, write and graph the following inequalities.

- a. There are no more than 28 students in the class. b. At least 75 people will be at the party.

8. Rectangular Prism- On this page, you must draw a rectangular prism and list the formulas for surface area and volume of a rectangular prism. Then, you will **calculate the surface area and volume** of each rectangular prism. Make sure you draw a rectangular prism for each question. **SHOW YOUR WORK AND YES YOU CAN USE A CALCULATOR.**

a. $L=2.3\text{in}$, $W=4.5\text{in}$, $H=5.4\text{in}$

b. $L=8\text{cm}$, $W=9\text{cm}$, $H=11\text{cm}$

9. Percent- On this page, you must solve the following percent problems. Remember to set up a proportion.

a. What percent of 80 is 48?

c. 40 is 20% of what number?

b. 60% of what number is 84?

d. The sales tax on a \$150 DVD player is \$6. What is the sales tax rate?

10. Fraction Computation- On this page, add, subtract, multiply or divide each fraction. Simplify each answer when necessary. Remember, all improper fractions must be changed to mixed numbers. **SHOW YOUR WORK! NO CALCULATORS!**

a. $2\frac{4}{5} + 4\frac{1}{2}$

b. $3\frac{3}{4} \div \frac{3}{4}$

c. $4\frac{1}{3} - 1\frac{2}{3}$

d. $\frac{7}{8} \times \frac{2}{3}$

11. Reflection- On this page, you must **write a paragraph containing a minimum of 5 sentences of** what your favorite topic is in math class. Please explain what the topic is, why this is your favorite topic, and how you can incorporate this topic in everyday life.

THIS SCRAPBOOK PROJECT WILL COUNT AS 1 TEST GRADE!!!

Rubric

	Below Expectations (1)	Approaching Expectations (2)	Meeting Expectations (3)	Exceeding Expectations (4)
Order of Operations	Problems are incorrect and the work provided is incomplete.	2-3 of the problems are correctly solved. Work for each problem is incomplete.	Correctly solved all four problems and included work for each problem.	Correctly solved all four problems and included work for each problem. The work provided is neat and organized.
Fraction, Decimal, and Percent	Explanations are incorrect and the work provided is incomplete.	Provided explanations and examples. Some errors are present.	Correctly explained how to convert between fractions, decimals, and percents. Examples are explained and accurately solved.	Critically explained how to convert between fractions, decimals, and percents. Examples are well explained and accurately solved.
Equations	Problems are incorrect and the work provided is incomplete.	2-3 of the problems are correctly solved. Work for each problem is incomplete.	Correctly solved all four problems and included work for each problem.	Correctly solved all four problems and included work for each problem. The work provided is neat and organized.
Integers	Many errors are present when creating situations to represent integers and placement on a number line.	Few errors are present when creating situations to represent integers or placement on a number line.	Creates 5 situations to represent integers. Accurately places integers on a number.	Creates 5 realistic situations that connect integers to the real world. Accurately places the integers on a number line.
Inequalities	Incorrectly describes inequalities and the meaning of each sign. Many errors when writing and graphing examples given.	Describes inequalities and the meaning of each sign. Few errors when writing and graphing examples given.	Evaluates and describes inequalities and the meaning of each sign. Correctly writes and graphs examples given.	Critically evaluates and describes inequalities and the meaning of each sign. Correctly writes and graphs examples given. Connects the examples to their explanation.
Rectangular Prisms	Problems are incorrect and the work provided is incomplete. There are no explanations or formulas provided.	Solved both problems with few errors. Included work for each problem. The formulas are provided.	Correctly solved both problems. Included work for each problem. The formulas given are explained and provided.	Correctly solved and explained both problems. Included work for each problem. The formulas given are thoroughly explained and provided. The work provided is neat and organized.
Percents	Problems are incorrect and the work provided is incomplete.	2-3 of the problems are correctly solved. Work for each problem is incomplete.	Correctly solved all four problems and included work for each problem. Proportions are included for each.	Correctly solved all four problems and included work for each problem. The work provided is neat and organized. Proportions are included for each.
Fraction Computation	Problems are incorrect and the work provided is incomplete.	2-3 of the problems are correctly solved. Work for each problem is incomplete.	Correctly solved all four problems and included work for each problem. Included simplified answers.	Correctly solved all four problems and included work for each problem. The work provided is neat and organized. Provided work for simplifying answers.
Reflection	The reflection, explanation, and/or connection does not meet the minimum requirements.	Reflection meets the minimum of 5 sentences. The topic is not explained or does not include a connection.	Reflection meets the minimum of 5 sentences. The topic is explained and includes a connection to everyday life.	Reflection exceeds length minimum. The topic is critically explained and includes realistic connections to the student's everyday life.
Organization	The project requirements are not in order.	The project includes all requirements. Some of the work is not in the outlined order.	The project is organized and includes all necessary requirements.	The project is put together in an organized way. All requirements are easily accessible (titles, page numbers, etc.).
Grammar	There are many grammatical and punctuation errors.	Project includes 3-6 grammatical or punctuation errors.	Project includes 1-2 grammatical or punctuation errors.	Project does not include any grammatical or punctuation errors.
Neatness & Creativity	The project does not show any creativity and is not neat.	Project is neat, but shows little creativity.	Project is neat and shows creativity.	Project exceeds expectations of neatness and creativity.
Due Date	Project was turned in after the due date.	Project was turned in on time.		

Total: _____/50