LOWELL CATHOLIC

ELEMENTARY DIVISION

Dear Rising Sixth Grader,

Research shows that students regress over the summer and lose some of what was learned over the school year. I know, I can hear the moans and groans already. Let me assure you this summer math project should be simple and painless. My goal with your summer Math project is to keep your mind sharp and ready for your first day of sixth grade!

This packet has just 3 pages. Do the math, if you plan accordingly and complete a little each week you will have time to spare. Do not procrastinate and put this math project off to the last minute! I recommend you break it down and do a little bit each week. **This project is due on 9/1/2026 and will receive a test grade. As always, you should use a pencil and show all of your work on a separate piece of paper with your name on it.**

As part of your summer math project, I want you to keep your ears and eyes open for a time when you use your math skills. Perhaps you used your estimating skills to determine what the grocery bill was going to be or calculate the cost of filling up the gas tank for a family trip. Maybe you used your measuring skills to help prepare a favorite recipe or sold lemonade and had to make change for a customer. Family game night is another great opportunity to use your math skills. Play a game of Monopoly, Yahtzee, Battleship or Multiplication War with friends and family. Tell me about these real life Math experiences on the last page of your packet.

In this packet you may come across some topics you are not familiar with. That is okay. If you are having difficulty with a topic, I suggest using Khan Academy as a resource. You will find videos to help you work through a topic at www.Khanacademy.com. My email address is scrockett@lowellcatholic.org if you need to reach out with questions or concerns.

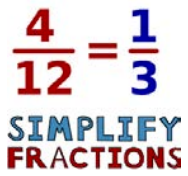
Enjoy the lazy days of summer with your family and friends! I look forward to seeing you soon!

Warm Regards,
Mrs. Crockett

Simplifying Fractions 1

Simplify each fraction as much as possible (do all)

1. $\frac{36}{84}$
2. $\frac{25}{140}$
3. $\frac{315}{405}$



Multiples and Factors

16

1. List all *factors*
2. List 4 multiples

Reciprocal

1. $\frac{6}{7}$
2. $\frac{51}{83}$
3. $\frac{53}{21}$

Add Fractions

$\frac{1}{2} + \frac{1}{3} = ?$

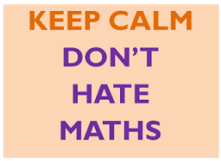
$\frac{1}{2} \overset{\times 3}{\underset{\times 3}{=}} \frac{3}{6}$ $\quad$ $\frac{1}{3} \overset{\times 2}{\underset{\times 2}{=}} \frac{2}{6}$

$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

1. $\frac{1}{5} + \frac{3}{5} =$
2. $\frac{2}{6} + \frac{3}{12} =$
3. $\frac{3}{7} + \frac{4}{14} + \frac{3}{28} =$

Math is Everywhere

Write a 5 sentence paragraph about your feelings about math. (It's alright if you don't like math or you don't do well in math. You can tell me and I won't be upset!)



Divide Fractions

$\frac{3}{4} \div \frac{2}{3} = \frac{3}{4} \times \frac{3}{2}$

1. $\frac{5}{6} \div \frac{1}{9} =$
2. $\frac{2}{9} \div \frac{6}{10} =$
3. $\frac{9}{8} \div \frac{1}{4} =$

Dividing Decimals

Divide. Round your answers to the nearest hundredth.

1. 1.64 ÷ 0.04
2. 0.81 ÷ 0.09
3. 1.76 ÷ 0.02
4. 0.30 ÷ 0.06

Ordering Fractions

from least to greatest (do all)

1. $\frac{8}{3}, \frac{5}{3}, \frac{2}{3}, \frac{7}{3}$
2. $\frac{2}{3}, \frac{1}{2}, \frac{3}{4}, \frac{4}{5}$

Math is Everywhere

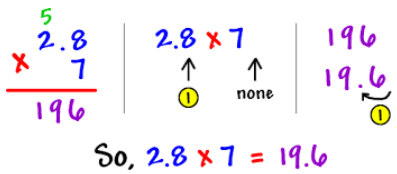
Write a 5 sentence paragraph about how math is used when you are shopping for groceries.



Fraction Word Problem

Jamie is painting her house. Each room takes $\frac{1}{2}$ of a liter of paint. If Jamie has 3 liters of paint, how many rooms can she paint?

Multiply Decimals
(do all)



1. 0.04 x 1.5 =
2. 0.035 x 3.2 =
3. 0.215 x 4.9 =

Math is Everywhere

Write a 5 sentence paragraph telling how math is used when playing your favorite sport.



Multiply fractions

1. $\frac{8}{9} \; x \; \frac{4}{5} =$
2. $\frac{8}{9} \; x \; \frac{7}{13} =$
3. $\frac{5}{9} \; x \; \frac{4}{6} \; x \; \frac{12}{15} =$

Math Vocabulary

Vocabulary:
What operations is used when asked to find:

1. Sum
2. Difference
3. Product
4. Quotient
5. Total

Multiplying Decimals Word Problem

School lunches cost $14.50 per week. About how much would 10 weeks of lunches cost?

Math is Everywhere

Play a MATH game on CoolMathGames.com for 15 minutes.

Write a 5 sentence paragraph describing the game you played and your strategy for winning.



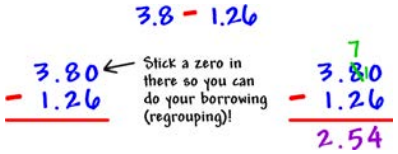
Multiplying decimals
(do all)

1. 0.2 x 0.06
2. 19.29 x 90.93
3. 0.07 x 0.05
4. 97.12 x 77.99

Subtraction with Decimals

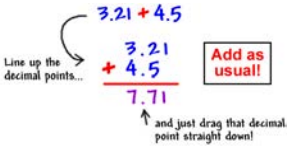
Do all.

1. 92.28 - 57.42
2. 53.19 - 39.57
3. 48.81 - 41.36
4. 63.64 - 38.78
5. 53.19 - 39.57



Find the sum
Do all.

1. 89.961 + 53.623
2. 71.551 + 93.951
3. 87.252 + 53.399
4. 27.179 + 89.898
5. 48.297 + 31.888



Fraction Word Problems

On a cruise, Carey spent $\frac{1}{8}$ of the day playing volleyball, $\frac{1}{6}$ swimming, and $\frac{1}{6}$ at meals.

What fraction of the day was left?

State whether the number is prime or composite. List the factors.

1. 35
2. 9
3. 28
4. 13

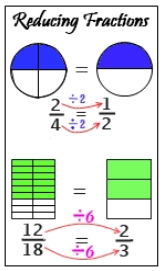
Reduce Fractions

Reduce each ratio to its lowest form.

1. $\frac{12}{18}$
2. $\frac{14}{63}$
3. $\frac{48}{42}$
4. $\frac{35}{28}$

Math is Everywhere

Write a brief explanation of the method you use to reduce fractions.



Evaluating Mathematical Expressions
Remember to use PEMDAS!

42 ÷ 6 × 2 - 9

(40 ÷ 5) - 7 + 2

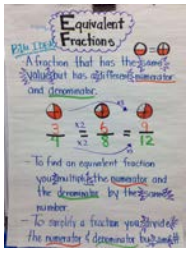
28 - 4 × 7

45 ÷ 5 + 36 ÷ 4

Round to the nearest whole number

- 41.803
- 109.96
- 8.437
- 119.63
- 69.713

Equivalent Fractions



$\frac{x}{3} = \frac{12}{18}$ $\frac{2}{6} = \frac{12}{x}$

$\frac{x}{8} = \frac{42}{48}$ $\frac{18}{x} = \frac{90}{125}$

Round to the nearest tenth

- 33.335
- 281.059
- 99.962
- 103.103
- 1.861

Tell me about a time(s) you used your math over the summer:

Draw a picture that includes the following Geometric Terms. Be sure to label each one. You may color code each one to make it easier to find.

COLOR	GEOMETRIC TERM
	Lines
	Rays
	Line Segment
	One pair of Parallel lines
	One pair of perpendicular lines
	One Right Angle
	One Acute Angle
	One Obtuse Angle
	One Triangle
	One Quadrilateral

	One square
	One rectangle
	One parallelogram
	One pentagon
	One heptagon
	One octagon
	One quadrilateral