Rising 5th Grade Summer Math Packet

Thank you for taking the time to review and practice your math skills this summer. This packet includes a review of fourth grade skills considered to be a prerequisite to the fifth grade math course.

- **Completion of the first half of this packet (days 1-5) is mandatory for all 5th grade students enrolled at Cornerstone Christian Academy who will be taking 5th grade math in the fall.**
- You should complete this packet without the use of a calculator and **show all steps used to arrive at your final answer (either on this packet or on separate sheets of paper – please number your problems on any scratch paper.)**
- It is recommended to start this packet in the middle of July and to spread it out over several days. It is not intended to do all in one sitting.
- During the first week of school, you will turn in your completed review packet and take a diagnostic test. Please keep in mind while you are working on this review packet that you will not be allowed to use a calculator during the assessment in August.
- The first five days in this packet will count as your first homework grade in math.
- If the entire packet (all 10 days) is completed, your lowest first semester test grade will be bumped to an A (90%), and will be applied at the end of the semester.

We look forward to seeing you at school in August!

Name:_____

HELPFUL HINTS (please keep these in mind as you work through this packet):

- When adding and subtracting whole numbers or decimals, line up the place values.
- When adding or subtracting fractions, keep the denominator the same and add the numerators.
- When rounding a number, decide which digit is the last digit to keep. Leave it the same if the next digit is less than 5 (*rounding down*), but increase it by 1 if the next digit is 5 or more (*rounding up*). All other digits to the right of that digit become 0.
- Factors are numbers that can be evenly divided into a number…the factors of 6 are 1, 2, 3, and 6.
- Multiples are the product of a number and any other number…the first few multiples of 5 are 0, 5, 10, 15, etc.
- To change a fraction into a decimal, divide the numerator by the denominator.
- To change a decimal to a fraction, put the number over the place value of the last digit and reduce.
- Perimeter is the distance around an object. Area is the square units inside a figure.
- The sum of all the angles in a triangle is 180°.
- The order of operations is as follows: Parentheses, Exponents, Multiplication, Division, Addition, Subtraction ("Please Excuse My Dear Aunt Sally").
- NO CALCULATORS ARE TO BE USED!

Day 1 – Mandatory (don't forget to show your work)

Round 4,298 to the nearest hundred.	Add. 199,734 + 34,988	Subtract. 405,300 - 7,542
Multiply. 324 x 15	Divide. 145 / 5 = _____	Compare using <, >, or =. 3,899 _____ 3,901
Find the missing number. 5 x ? = 100	Convert. 2 hours = _____ minutes	On Monday Drew walked 2 miles to school, then $\frac{1}{2}$ miles to the grocery store, then $1\frac{1}{2}$ miles back home. How many miles did Drew walk in all?

Day 2 – Mandatory (don't forget to show your work)

Round 3,169,401 to the nearest ten-thousand.	Add. $5.40 + $8.36	Subtract. 10.7 - 4.1
Use the order of operations to solve. 74 x 10 - 12	Multiply. $4.52 x 3	Compare using <, >, or =. 3.02 _____ 3.20
Find the missing number. 96 ÷ ? = 12	Convert. (Recall 3 ft = 1 yd) _____ feet = 4 yards	Jonathan biked at a speed of 32 miles per hour. If he biked for 2 hours, how many total miles did he bike?

Day 3 - Mandatory (don't forget to show your work)

Round 421.59 to the nearest tenth.	Add. 10.6 + 3.9	Subtract. 6.75 - 1.48
Multiply. 706 x 43	Divide. 224 / 4 = _____	Compare using <, >, or =. $\frac{1}{2}$ _____ $\frac{1}{4}$
Find the missing number. 7 x ? = 56	List the first five multiples of 12 below (do not include 12 itself).	Allison makes $7 an hour working at Chick-fil-A. If she worked 14 hours this week, how much did she make in all?

Day 4 - Mandatory (don't forget to show your work)

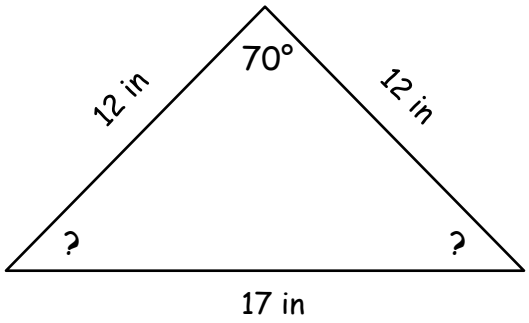
Round 5,679.42 to the nearest thousand.	Add. 1,999,999 + 3,498,913	Subtract. $10.48 - $4.65
Multiply. 1,000 x 100	Divide. 235 / 4 = _____	Compare using <, >, or =. 6 x 2 _____ 3 x 5
Find the missing number. 150 ÷ ? = 75	Convert. 3 lb. = _____ oz. (16 oz. = 1 lb.)	A brownie recipe calls for $\frac{1}{4}$ cup vegetable oil, $\frac{1}{2}$ cup water and $\frac{3}{4}$ cup milk. How many cups of liquid is that altogether?

Day 5 - Mandatory (don't forget to show your work)

Solve the problem below. Write a justification explaining your answer and solution on the next page. Use complete sentences. (it will help if you write out the steps in numerical order as you go)

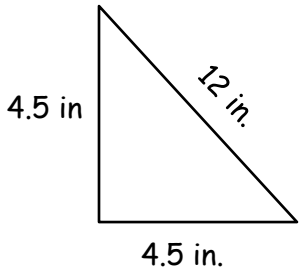
Jack's Triangle

Jack was able to find all the measures of the angles in Triangle A. One angle measured 70 degrees and the other 2 angles were congruent (equal) to each other. Describe the steps that you would take to find the two missing angles in Triangle A. Then classify the triangle based on its sides (equilateral, isosceles, or scalene). (Remember: The sum of all the angles in a triangle is 180°.)



Jack's Triangle SOLUTION JUSTIFICATION

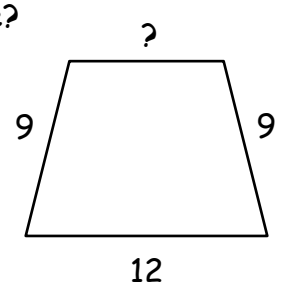
Day 6 - Optional (don't forget to show your work)

Round 367.54 to the nearest whole number.	Add. 4.2 + 3.76	Subtract. 8 – 2.1
Multiply. 7.04 x 5	Divide. 15.6 / 12 = _____	Compare using <, >, or =. four tenths_____ 0.40
Find the missing number. 4 x 5 - ? = 18	Find the perimeter.  	Soccer practice lasted 2 hours and 30 minutes. If it started at 3:15 pm, what time did the practice end?

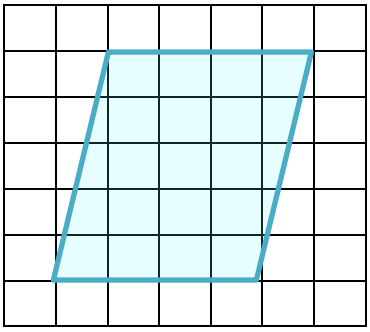
Day 7 - Optional (don't forget to show your work)

Make the following mixed numbers into improper fractions. a. $3\frac{1}{2}$ = _____ b. $1\frac{3}{4}$ = _____ c. $2\frac{2}{5}$ = _____	List all of the factors of 24.	Write the following decimals as fractions, then put into their simplest form. a. 0.25 = _____ b. 0.8 = _____ c. 0.57 = _____
Use the order of operations to solve. (you can add parentheses to help you – review the hints page for help) 15 + 5 – 3 + 4	Multiply. 3 x 3 x 3 x 3= _____	Compare using <, >, or =. $\frac{4}{5}$ _____ $\frac{9}{10}$
Find the missing number. 14 ÷ 2 + ? = 10	What type of angle does the hour hand and minute hand make when it is 3:30 (look at an analog clock to help you)? a. Acute b. Right c. Obtuse d. Straight	Christy does chores to earn money to buy a boogie board. So far she has earned $7, $4.25, and $5.50 this week. If she wants to buy a board for $20, how much *more* does she need to earn?

Day 8 - Optional (don't forget to show your work)

Estimate the product. 21.99 x 3.02 = _____	List the first five multiples of 9 (do not include nine itself.	Subtract. Record your answer in simplest terms. $\frac{6}{8} - \frac{4}{8}$
Convert the fractions to decimals (do not use a calculator). a. 5/10 = _____ b. 1/3 = _____ c. 67/100 = _____	Divide. 564 / 10 = _____	Compare using <, >, or =. Two-fifths _____ $\frac{2}{7}$
If the perimeter of the object below is 36, what is the length of the missing side?  	What is half of 50 plus 4 squared?	Kelli made 42 cookies for a party. The party guests ate 28 cookies and then Kelli gave half of the rest to her next-door neighbor. How many cookies did Kelli have afterwards?

Day 9 - Optional (don't forget to show your work)

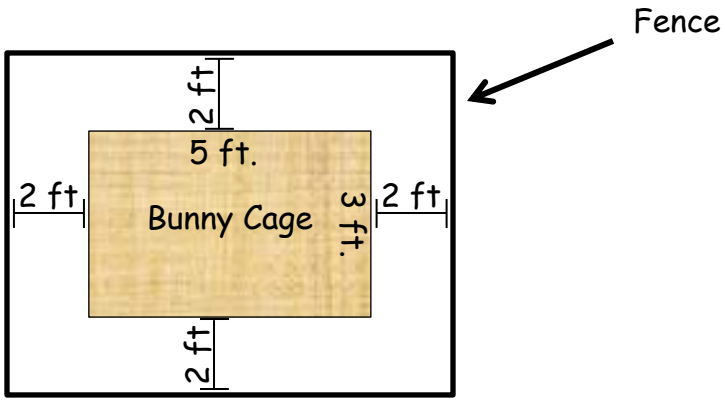
What would be the best unit to use in order to measure the length of a pencil? a. Millimeters b. Centimeters c. Meters d. Kilometers	Add. 2,388,742 4,234,091 + 3,451,913	Subtract. 16 – 8.72
Multiply. $10^2 \times 10^3$	Given the information below, determine whether Triangle ABC is a real triangle. (briefly explain why or why not) Angle A = 20° Angle B = 39° Angle C = 41°	Compare using <, >, or =. 2^3 _____ 3^2
What is the area of the figure below? 	Find the median in the set of data. 1, 8, 3, 5, 4, 5, 7,	Frank bought a card for $3.99 then paid $0.28 in taxes. If he paid with a $5 bill, how much change did he receive?

Day 10 - Optional (don't forget to show your work)

Solve the problem below. Write a justification explaining your answer and solution on the next page. Use complete sentences. (it will help if you write out the steps in numerical order as you go)

The Bunny Cage

Cindy wants to build a fence around her bunny cage in her back yard. Right now the cage is 3 feet wide by 5 feet long. If she wants to make it so that the fence is 2 feet away from the cage on each side, what would be the width and length of the fence around the bunny cage? What would be the Perimeter of the fence?



Bunny Cage SOLUTION JUSTIFICATION