

Rising 5th Grade Summer 2013 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 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.
- 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 (with 80% accuracy), your lowest first semester test grade will be bumped to an A.

We look forward to seeing you at school in August!

Name: _____

HELPFUL HINTS:

- 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

| | | |
|--|--|--|
| <p>Round 4,298 to the nearest hundred.</p> | <p>Add.</p> $\begin{array}{r} 199,734 \\ + 34,988 \\ \hline \end{array}$ | <p>Subtract.</p> $\begin{array}{r} 405,300 \\ - 7,542 \\ \hline \end{array}$ |
| <p>Multiply.</p> $\begin{array}{r} 324 \\ \times 15 \\ \hline \end{array}$ | <p>Divide.</p> $145 / 5 = \underline{\hspace{2cm}}$ | <p>Compare using <, >, or =.</p> $3,899 \underline{\hspace{1cm}} 3,901$ |
| <p>Find the missing number.</p> $5 \times \underline{?} = 100$ | <p>Convert.</p> $2 \text{ hours} = \underline{\hspace{2cm}} \text{ minutes}$ | <p>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?</p> |

Day 2 - Mandatory

| | | |
|---|--|--|
| <p>Round 3,169,401 to the nearest ten-thousand.</p> | <p>Add.</p> $\begin{array}{r} \$5.40 \\ + \$8.36 \\ \hline \end{array}$ | <p>Subtract.</p> $\begin{array}{r} 10.7 \\ - 4.1 \\ \hline \end{array}$ |
| <p>Use the order of operations to solve.</p> $74 \times 10 - 12$ | <p>Multiply.</p> $\begin{array}{r} \$4.52 \\ \times 3 \\ \hline \end{array}$ | <p>Compare using $<$, $>$, or $=$.</p> $3.02 \quad \underline{\hspace{1cm}} \quad 3.20$ |
| <p>Find the missing number.</p> $96 \div \underline{\hspace{1cm}} = 12$ | <p>Convert. (Recall 3 ft = 1 yd)</p> <p>$\underline{\hspace{1cm}}$ feet = 4 yards</p> | <p>Jonathan biked at a speed of 32 miles per hour. If he biked for 2 hours, how many total miles did he bike?</p> |

Day 3 - Mandatory

| | | |
|--|--|--|
| <p>Round 421.59 to the nearest tenth.</p> | <p>Add.</p> $\begin{array}{r} 10.6 \\ + 3.9 \\ \hline \end{array}$ | <p>Subtract.</p> $\begin{array}{r} 6.75 \\ - 1.48 \\ \hline \end{array}$ |
| <p>Multiply.</p> $\begin{array}{r} 706 \\ \times 43 \\ \hline \end{array}$ | <p>Divide.</p> $224 / 4 = \underline{\hspace{2cm}}$ | <p>Compare using $<$, $>$, or $=$.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{1}{4}$ |
| <p>Find the missing number.</p> $7 \times \underline{\quad} = 56$ | <p>List the first five multiples of 12 below.</p> | <p>Allison makes \$7 an hour working at Chick-fil-A. If she worked 14 hours this week, how much did she make in all?</p> |

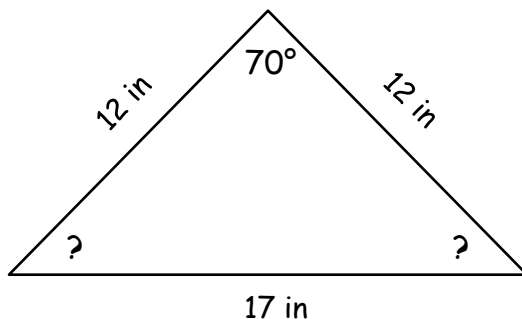
Day 4 - Mandatory

| | | |
|---|--|---|
| <p>Round 5,679.42 to the nearest hundred-thousand.</p> | <p>Add.</p> $\begin{array}{r} 1,999,999 \\ + 3,498,913 \\ \hline \end{array}$ | <p>Subtract.</p> $\begin{array}{r} \$10.48 \\ - \$4.65 \\ \hline \end{array}$ |
| <p>Multiply.</p> $\begin{array}{r} 1,000 \\ \times 100 \\ \hline \end{array}$ | <p>Divide.</p> $224 / 4 = \underline{\hspace{2cm}}$ | <p>Compare using <, >, or =.</p> $6 \times 2 \quad \underline{\hspace{1cm}} \quad 3 \times 5$ |
| <p>Find the missing number.</p> $150 \div \underline{\hspace{1cm}} = 75$ | <p>Convert.</p> $3 \text{ lb.} = \underline{\hspace{2cm}} \text{ oz.}$ <p>(16 oz. = 1 lb.)</p> | <p>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?</p> |

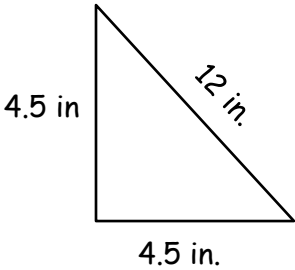
Solve the problem below. Write a justification explaining your answer and solution on the next page. Use complete sentences.

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° .)

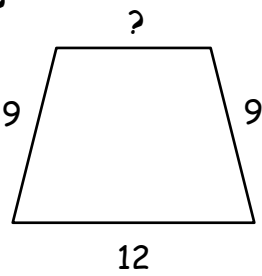


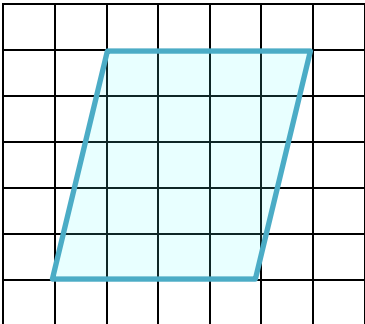
Day 6 - Optional

| | | |
|--|--|---|
| <p>Round 367.54 to the nearest whole number.</p> | <p>Add.</p> $4.2 + 3.76$ | <p>Subtract.</p> $8 - 2.1$ |
| <p>Multiply.</p> $\begin{array}{r} 7.04 \\ \times 5 \\ \hline \end{array}$ | <p>Divide.</p> $15.6 / 12 = \underline{\hspace{2cm}}$ | <p>Compare using $<$, $>$, or $=$.</p> <p>four tenths $\underline{\hspace{1cm}}$ 0.40</p> |
| <p>Find the missing number.</p> $4 \times 5 - \underline{?} = 18$ | <p>Find the perimeter.</p>  | <p>Soccer practice lasted 2 hours and 30 minutes. If it started at 3:15 pm, what time did the practice end?</p> |

Day 7 - Optional

| | | |
|--|--|--|
| <p>Make the following mixed numbers improper fractions.</p> <p>a. $3\frac{1}{2} = \underline{\hspace{2cm}}$</p> <p>b. $1\frac{3}{4} = \underline{\hspace{2cm}}$</p> <p>c. $2\frac{2}{5} = \underline{\hspace{2cm}}$</p> | <p>List all of the factors of 24.</p> | <p>Write the following decimals as fractions in simplest form.</p> <p>a. $0.25 = \underline{\hspace{2cm}}$</p> <p>b. $0.8 = \underline{\hspace{2cm}}$</p> <p>c. $0.57 = \underline{\hspace{2cm}}$</p> |
| <p>Use the order of operations to solve.</p> <p>$15 + 5 - 3 + 4$</p> | <p>Multiply.</p> <p>$3 \times 3 \times 3 \times 3 = \underline{\hspace{2cm}}$</p> | <p>Compare using $<$, $>$, or $=$.</p> <p>$\frac{4}{5} \underline{\hspace{1cm}} \frac{9}{10}$</p> |
| <p>Find the missing number.</p> <p>$14 \div 2 + ? = 10$</p> | <p>What type of angle does the hour hand and minute hand make when it is 3:30?</p> <p>a. Acute</p> <p>b. Right</p> <p>c. Obtuse</p> <p>d. Straight</p> | <p>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 <i>more</i> does she need to earn?</p> |

| | | |
|---|--|---|
| <p>Estimate the product.</p> <p>$21.99 \times 3.02 = \underline{\hspace{2cm}}$</p> | <p>List the first five multiples of 9.</p> | <p>Subtract. Record your answer in simplest terms.</p> $\frac{6}{8} - \frac{4}{8}$ |
| <p>Convert the fractions to decimals.</p> <p>a. $5/10 = \underline{\hspace{2cm}}$</p> <p>b. $1/3 = \underline{\hspace{2cm}}$</p> <p>c. $67/100 = \underline{\hspace{2cm}}$</p> | <p>Divide.</p> <p>$564 / 10 = \underline{\hspace{2cm}}$</p> | <p>Compare using $<$, $>$, or $=$.</p> <p>Two-fifths $\underline{\hspace{1cm}}$ $\frac{2}{7}$</p> |
| <p>If the perimeter of the object below is 36, what is the length of the missing side?</p>  | <p>What is half of 50 plus 4 squared?</p> | <p>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?</p> |

| | | |
|--|---|--|
| <p>What would be the best unit to use in order to measure the length of a pencil?</p> <p>a. Millimeters b. Centimeters c. Meters d. Kilometers</p> | <p>Add.</p> $\begin{array}{r} 2,388,742 \\ 4,234,091 \\ + \underline{3,451,913} \end{array}$ | <p>Subtract.</p> $16 - 8.72$ |
| <p>Multiply.</p> $10^2 \times 10^3$ | <p>Given the information below, determine whether Triangle ABC is a real triangle.</p> <p>Angle A = 20° Angle B = 39° Angle C = 41°</p> | <p>Compare using $<$, $>$, or $=$.</p> $2^3 \quad \underline{\quad} \quad 3^2$ |
| <p>What is the area of the figure below?</p>  | <p>Find the median in the set of data. 1, 8, 3, 5, 4, 5, 7,</p> | <p>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?</p> |

Solve the problem below. Write a justification explaining your answer and solution on the next page. Use complete sentences.

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?

