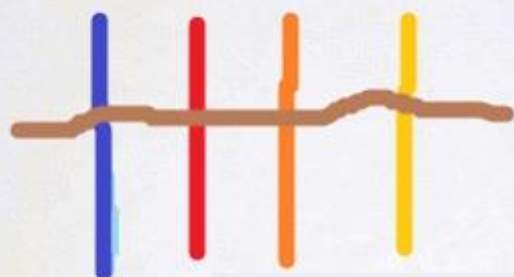





Illustrate

To

CALCULATE



Kimberly Coulter



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Place Value

You had a dream last night that showed you graduating from college and getting recruited to work for a great company that specializes in science, technology, engineering, or math (STEM). The contract stated that you will earn \$72, 871 each year. Figure out the value of the underlined digit and draw the number of dollar signs that corresponds to the value. How many dollar signs did you draw? Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date_____

√√√ (Triple check)_____

Subtraction

You plan on attending a large university in your state and discovered that it costs \$23,000 each year. You figure that cost will not be a problem because you are determined to get good grades, be involved in extracurricular activities and receive a scholarship for \$18,000 and a grant for \$5,000. If you receive the scholarship and the grant, how much money will you have to personally pay to the university. After you get the answer draw a picture of your families' reaction to the good news. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date_____

√√√(Triple check) _____

Addition and Multiplication

Whose got next on the table? While you're waiting for your turn, draw a domino that has a sum of 12 and a product of 36. Hint: When you add the dots on the left side with the dots on the right side, the sum will equal 12. When you multiply the number of dots on the left side with the number of dots on the right side, the answer will equal 36. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date _____

√√√(Triple check) _____

Multiplication

Mmmm! Momma bought five rib tip dinners from the church. Each dinner cost \$7.25. Draw each dinner with your favorite sides and bread. Then calculate how much each dinner cost? Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date _____

√√√(Triple check) _____

Division

As usual, you are the only one with gum and everybody needs some. Draw a picture to show how you would divide 20 pieces of gum amongst you and your 3 friends. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date_____

√√√(Triple check)_____

The Mean

Draw a picture of your report card with the following subjects and grades: Social Studies B, Reading B, Science A, English A.

Calculate the grade point average by finding the mean. An A= 4 and a B=3. In the comment section write a goal that you want to accomplish this year. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date_____

√√√(Triple check) _____

Pie Graph

Last month you got \$32.00 for your allowance. You spent $\frac{1}{4}$ of it on a video game, $\frac{1}{8}$ on snacks, and another $\frac{1}{8}$ on a magazine. The last $\frac{1}{4}$ you decided to save in a sock. Draw a pie graph to show how you used your allowance. Write the dollar amount that you spent or saved within each slice of the pie graph. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date _____

√√√(Triple check) _____

Fractions

Somebody (probably your little brother) snuck and ate some of your favorite dessert. Draw the dessert. Divide the dessert into fifths and put an “x” on the piece that your brother ate. How much did he eat? What fraction will you eat? Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date_____

√√√ (Triple check)_____

Patterns

You are of a royal blood line. Now start acting like it. Design yourself a crown that has a geometric pattern. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date_____

√√√ (Triple check)_____

Reflection

There is only one you in the entire universe. Draw your full name or nickname and its reflection. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date_____

√√√ (Triple check)_____

Angles

In your dream last night you transformed into a superhero. yourself as a superhero flying at a 60° angle. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date _____

$\sqrt{\sqrt{\sqrt{\quad}}}$ -----

Triangles

Imagine you are a fashion designer for a new line of clothes
Transform a scalene, isosceles, and equilateral triangle into three
different types of hats. Label each hat. Double check and then
triple check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Concentric Circles

All of the best cars on the block have assembled together at wash. Draw one of the cars and make sure it looks like it is on 22” rims. Design the rims so that they have concentric circles. Double check and then triple check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Line Symmetry

Ooh look at that link! Draw a link necklace with a charm. Draw the charm so that it has at least one line of symmetry. Double check and then triple check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Solid Figures

On the other side of town there are some houses that are one of a kind and about as big as the whole block. Draw the pyramid style house and the cylindrical style house. Double check and then triple check your work.

Metric Length

Your little sister has the biggest mouth in the world. She can't keep a secret and she is always telling on you. Draw two pictures of her and her mouth. In the first picture make her mouth five centimeters wide and two centimeters long. In the second picture make her mouth three times this size. Label each picture.

Coolin and Schoolin Checklist

Name/Date _____
√√√ -----

Customary Length

That wasn't a bird or a plane. That was an alien! Draw a spaceship and an alien who has a foot with 9 toes of different lengths. Measure and label the length of each toe in inches. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date _____
√√√ -----

Circumference

Potato chips are one of your favorite snacks so you walk up to the corner store to get a bag. When you open them up, you notice that there are many different size chips in the bag. Draw a picture of one of the chips that has a circumference of 3 inches. How long is the radius? Double check and then triple check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Volume

Game designers have fun careers and get paid a lot of money. Design a brand new handheld game system that has a length of 6 inches, width of 4 inches and height of 2 inches? Double check and then triple check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Time

It's time to do your hair. After you get your hair grease, water bottle and brush, it is 7:00 a.m. When you finish it is 7:17 a.m. After you finish your younger siblings' hair it is 7:38 a.m. How long did it take you to do your hair and your younger siblings' hair altogether? Draw a picture of three clocks that reads: 7:00 a.m., 7:17 a.m., and 7:38 a.m. Double check and then triple check your work.

Logical Reasoning

Jason, Quashon, Terrance, and Justice all go to the mall to buy a different color hat to wear to the game. The choices of colors are blue, brown, silver and green. Justice and Terrance's hats are the colors of grass. Jason's is the same color as the bottom of a CD. Quashon hates the color green. Draw a picture of each boy wearing his hat. Double check and then triple check your work.

Probability Expressed As A Fraction

Create and name a brand new juicy assortment of candy that comes in 6 different colors: brown, blue, purple, orange, yellow and green. Each bag contains 30 pieces of candy and the probability of picking one of the brown pieces of candy is $\frac{1}{3}$. How many brown pieces of candy are in each bag? Draw a picture of the bag of candy. Double check and then triple check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Combinations

Its Thanksgiving time and Grandma has laid the table out as usual! She made turkey, ham, mustard greens, sweet potatoes, and corn. For dessert there is a Pecan Pie, Red Velvet Cake, and Peach Cobbler. Draw as many different Thanksgiving plates as you can. Each plate must have one type of meat, one vegetable, and one dessert. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date _____

√√√ -----

Multi-Step Problem Solving #1

The Board of Education wants to implement a district-wide uniform policy. They have asked you for your opinion on the style of the uniform. Design the perfect school uniform that consists of a shirt, pair of pants, and a belt. Give each item a price tag. Create a receipt that shows that 3 complete uniform purchases of pants, shirt and a belt equals less than \$100.00. Double check and then triple check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Multi-Step Problem Solving #2

Some of your friends are about to have a dancing contest but first they all have to find and agree on one song from the 20 CDs that they have altogether. Joslynn and Angel have the same amount of CDs. Tahja has 12 CDs. How many CDs does Angel have? Draw Angel dancing with her CD collection. Double check and then triple check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Multi-Step Problem Solving #3

The neighborhood grocery store located around the corner sale on one liter bottles of apple juice. The sign says that you can buy 2 for \$5.00. The store on the other side of town about 10 miles away is selling one bottle of the exact same apple juice for \$2.00. Calculate which store is selling the juice at the cheapest price? Draw a sign that explains who has the best deal. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date _____
√√√ -----

Multi-Step Problem Solving #4

Felton's pit bull weighed 50 pounds when it was 8 months old. She gained 5 pounds between the age of 6 months and 7 months. She then gained 9 pounds between the age of 7 and 8 months. How much did the pit bull weigh when she was 6 months? Draw and label the pit bull's weight for each month. Double check and then triple check your work.

Coolin and Schoolin Checklist

Name/Date _____
√√√ -----

Spatial Reasoning

Auntie Rosa is my favorite aunt but don't tell my Auntie De
Auntie Rosa's house is on the corner of Film Street and Averill
Boulevard. Webber Middle School is 2 blocks east of Auntie
Rosa's house and the corner store is 5 blocks north of the school.
Draw a map of this neighborhood. Double check and then triple
check your work.

Coolin and Schoolin Checklist
Name/Date _____
√√√ -----

Answer Key

(Most answers will vary according to each child's artistic design. The problems that have definitive answers are listed below.)

Place Value (pg. 1)

70 dollars signs

Subtraction (pg. 2)

\$0

Addition and Multiplication (pg. 3)

6,6

Multiplication (pg. 4)

\$36.25

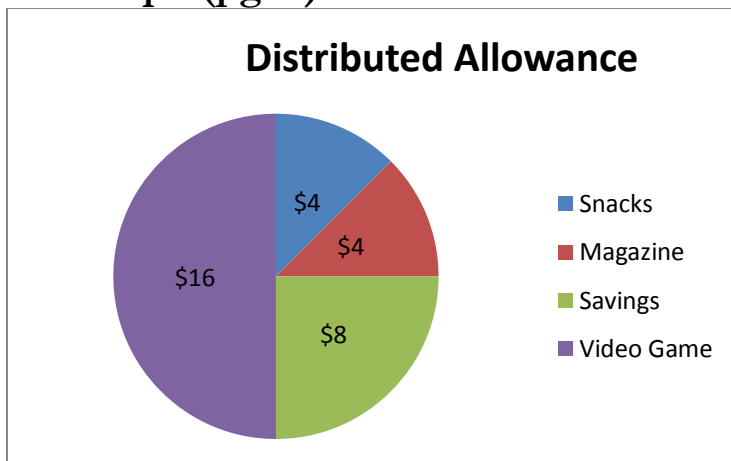
Division (pg. 5)

Each person would receive 5 pieces of gum.

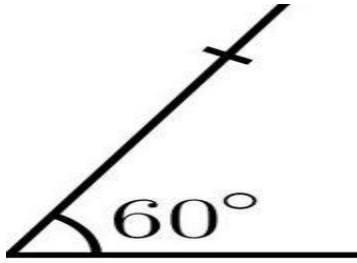
The Mean (pg. 6)

3.5

Pie Graph (pg. 7)



Angles (pg. 11)



Triangles (pg. 12)

Equilateral triangles have three sides that have the same length.

Isosceles triangles have two sides that have the same length.

Scales triangles have three sides that have different lengths.

Solid Figures (pg. 15)



Cylinder



Pyramid

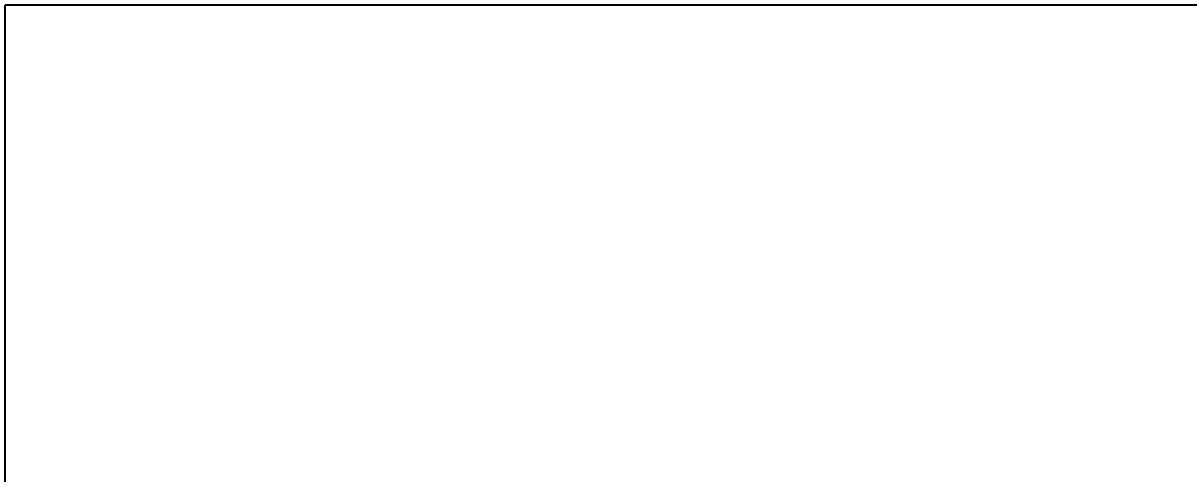
Metric Length (pg. 16)

5cm



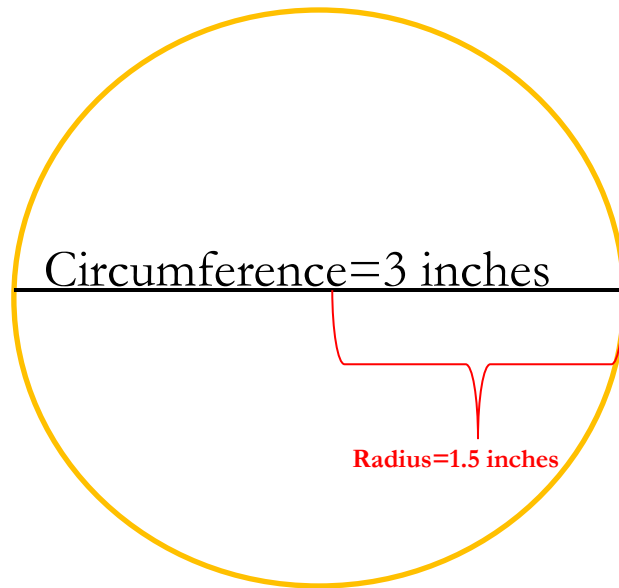
2cm

15 cm

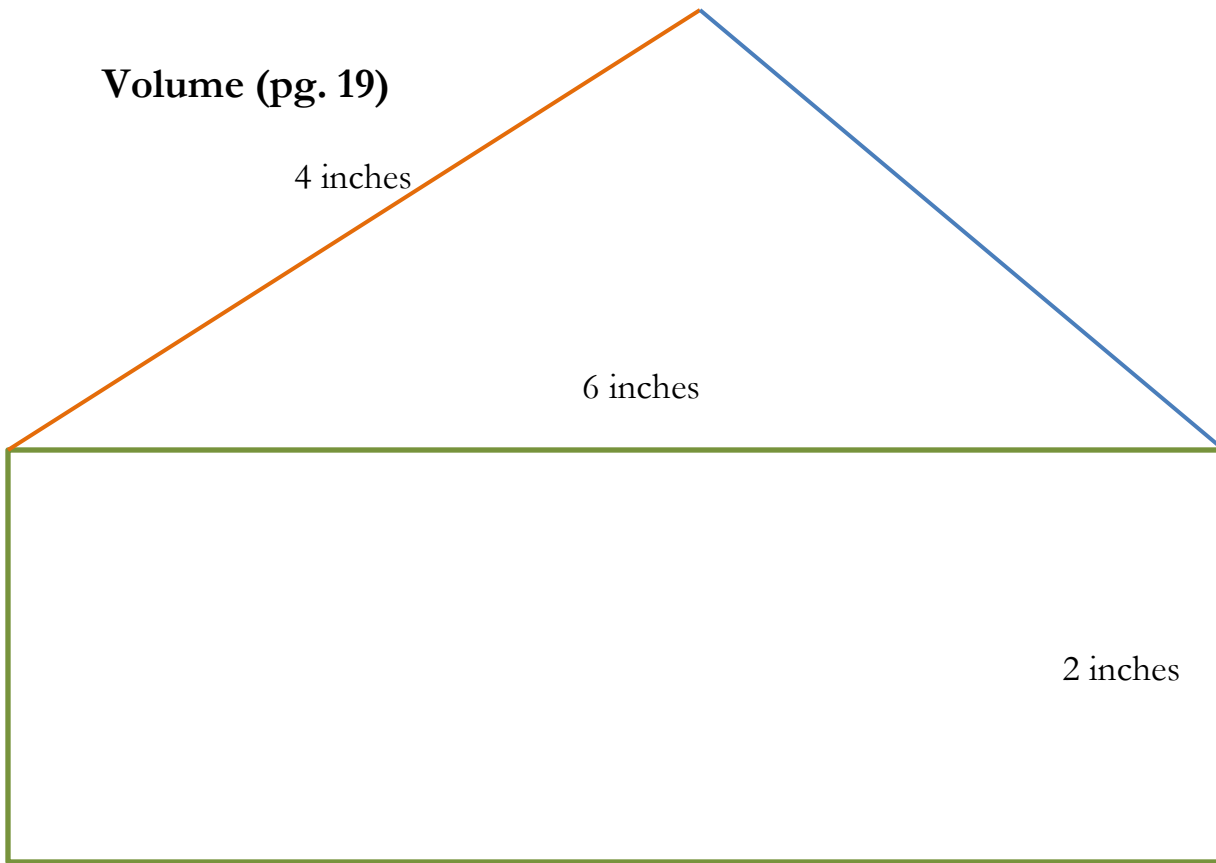


6 cm

Circumference (pg. 18)



Volume (pg. 19)



Time (pg. 20)

It took 38 minutes to style everyone's hair.

Logical Reasoning (pg. 21)

Jason's hat is gray.

Justice's hat is green.

Quashon's hat is blue.

Terrance's hat is brown.

Probability Expressed as a Fraction (pg. 22)

There are 10 brown pieces of candy.

Combinations (pg. 23)

There 18 different plate combinations.

Multi-Step Problem Solving #2 (pg. 25)

Tahja has 12 CDs.

Angel has 4 CDs.

Joslynn has 4 CDs.

Multi-Step Problem Solving #3 (pg. 26)

The store on the other side of town has the best deal. The neighborhood store sells the juice for \$2.50.

Multi-Step Problem Solving #4 (pg. 27)

6 months old-36 lbs

7 months old-41 lbs

8 months old-50 lbs

Spatial Reasoning (pg. 28)

