

Schuchard Elementary

**MATH
ROCKS**

Summer Math Activities

For Students Entering Grade 6

Name: _____

Are you ready to have “sum” summer math fun?

You have learned SO much this year! It is important that you keep practicing your mathematical knowledge over the summer to be ready for 6th grade.

Create a personal Math Journal by stapling several pieces of paper together or use a notebook. Be sure to show all your work from the calendar activities in your Math Journal.

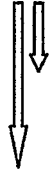
Included in this packet:

- * A calendar of activities for the months of July and August. Once you have completed an activity, have a family member initial the box on the calendar.
- * 4 additional activities for you to complete
- * A list of websites you can use to practice your math skills
- * X-tra Math Summer Log

Don't forget to bring your July and August calendars and activities to school on the first day of 6th grade. The teachers at Schwarzkoff will be so proud of your summer math work!


Happy Thinking!

July

<p>Place Value</p>	<p>Which means the same as 7500?</p> <p>a. 75 hundreds b. 75 ones c. 75 tens d. 75 thousands</p>	<p>Which sum has the value of 524?</p> <p>a. 5 tens + 24 ones b. 5 hundreds + 24 tens c. 5 hundreds + 2 tens + 4 ones d. 4 hundreds + 24 tens</p>	<p>In the numeral 2,564 the digit 5 has a value of:</p> <p>a. 5 b. 50 c. 564 d. 500</p>	<p>In what numeral does 4 have the least value:</p> <p>a. 648 b. 438 c. 2004 d. 4002</p>	<p>Express $(3 \times 1000) + (2 \times 100) + (1 \times 10) + (8 \times 1)$ in standard form.</p>
<p>Estimation</p>	<p>David completed 100 questions on the test. His teacher said he did $\frac{1}{4}$ of them correctly. Which best describes the number of questions he answered correctly?</p> <p>a. A little more than 20 b. A little more than 50 c. A little more than 30 d. A little less than 20</p>	<p>Jane needs to add $7\frac{1}{8}$ and 4%. To find a good estimate of the sum, which expression would be best for Jane to use?</p> <p>a. $7 + 4$ b. $7 + 5$ c. $71 + 44$ d. $8 + 4$</p>	<p>John wanted to ESTIMATE the product of 5.2 and 6.7</p> <p>What is the best estimate for his problem? Explain.</p>	<p>Mrs. Jones spent \$682 on groceries last month. This month she spent \$423 on groceries. ABOUT how much less did she spend on groceries this month than last month?</p>	<p>In June, Christy earned about \$18 for mowing lawns and \$29 for babysitting. ABOUT how much did she earn altogether? Explain your reasoning.</p>
<p>Measurement</p>	<p>If the shorter arrow is 3 inches long, ABOUT how long is the other arrow?</p> 	<p>A scale shows a weight of 10 grams. What object is most likely being weighed? Explain your reasoning.</p>	<p>A football field is 100 YARDS long. How many FEET would you run if you ran exactly half way down the field?</p>	<p>The 18-wheel truck is 10 meters long. How many centimeters is that?</p>	<p>Measure the height of each member of your family using standard units of measure. Record the height of each person in inches and feet. List their names from shortest to tallest.</p>
<p>Computation</p>	<p>Solve $5476 \div 345 =$ _____</p>	<p>The trip is 1567 miles in total. We have traveled 268 miles. How many more miles do we need to travel?</p>	<p>Solve $234 \times 6 =$ _____</p>	<p>In a car lot there are 38 rows with 25 parking spots in each row. How many parking spots are there in all?</p>	<p>Solve $434 \div 7 =$ _____</p>

Remember - show your work and answers in your Math Journal

August

<p>Fractions</p>	<p>Which improper fraction is equivalent to $2\frac{1}{4}$?</p> <p>a. $\frac{5}{4}$ b. $\frac{14}{4}$ c. $\frac{11}{4}$ d. $\frac{9}{4}$</p>	<p>Shade $\frac{2}{3}$ of the following circle.</p> 	<p>Maria needs $\frac{5}{8}$ ft of fabric to complete the project, but she only has $\frac{3}{8}$ ft of fabric. How much more fabric does she need?</p>	<p>Johnny drank $\frac{1}{4}$ of a cup of milk and Tasha drank $\frac{2}{4}$ of a cup of milk. How much milk did they drink in all?</p>	<p>Nico ran $\frac{4}{5}$ of a mile and Sarah ran $\frac{2}{3}$ of a mile. How many miles did they run all together?</p>
<p>Decimals</p>	<p>Which decimal is greater: .9 or .77?</p> <p>Explain your answer.</p>	<p>Daisha spent \$18.95 on a large box of greeting cards, \$2.95 for a roll of ribbon, \$15.64 for a scrapbook, and \$5.00 for writing paper. The cashier gave Daisha \$7.46 change. How much did Daisha give to the cashier?</p>	<p>Neil, Arnon, Liam and Jose earned \$55 for a landscaping project. If they divided the money evenly, how much money would they each receive?</p>	<p>Write seven hundredths in standard form.</p>	<p>Look through a grocery store flyer. Find the cost of at least 3 different items that are sold by weight (fruits, vegetables and meat). Decide with a family member how much of each item you need for your family. How much will be the total cost of all 3 items?</p>
<p>Problem Solving</p>	<p>Brent wants to earn \$200 to buy a new skateboard. He can earn money mowing lawns. Brent can earn \$10 for each lawn he mows. He can mow at most 4 lawns per week. How many weeks must Brent mow lawns to buy the skateboard?</p>	<p>Alexandria works at a bakery. On Monday, she baked 388 cookies. On Tuesday, Alexandria bakes 200 LESS cookies than on Monday. How many cookies did Alexandria bake on Tuesday?</p>	<p>The Harborside cafeteria sells veggie pizza and cheese pizza. Today they sold 25 pizzas at lunch. The sold seven more cheese pizzas than veggie pizzas. How many of each pizza did they sell?</p>	<p>John, Tim and Jose went out for dinner and spent a total of \$25.02. If they split the bill evenly, how much would each boy pay?</p>	<p>A brownie recipe calls for $\frac{2}{3}$ cup oil. If you tripled the recipe, how much oil would you need?</p>
<p>Geometry</p>	<p>Draw a picture of a quadrilateral. How many sides does it have?</p>	<p>Is a circle a polygon? Why or why not?</p>	<p>What is the difference between an octagon and a hexagon?</p>	<p>Find the perimeter and area of a square that has a length of 15 ft.</p>	<p>Use a Venn diagram to compare and contrast a square and a rectangle.</p>

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1) GRAPHS, GRAPHS, AND MORE GRAPHS

Look in magazines or newspapers to find an example of a circle graph, a bar graph and a line graph. Explain how each is used differently.

2) Take A Survey



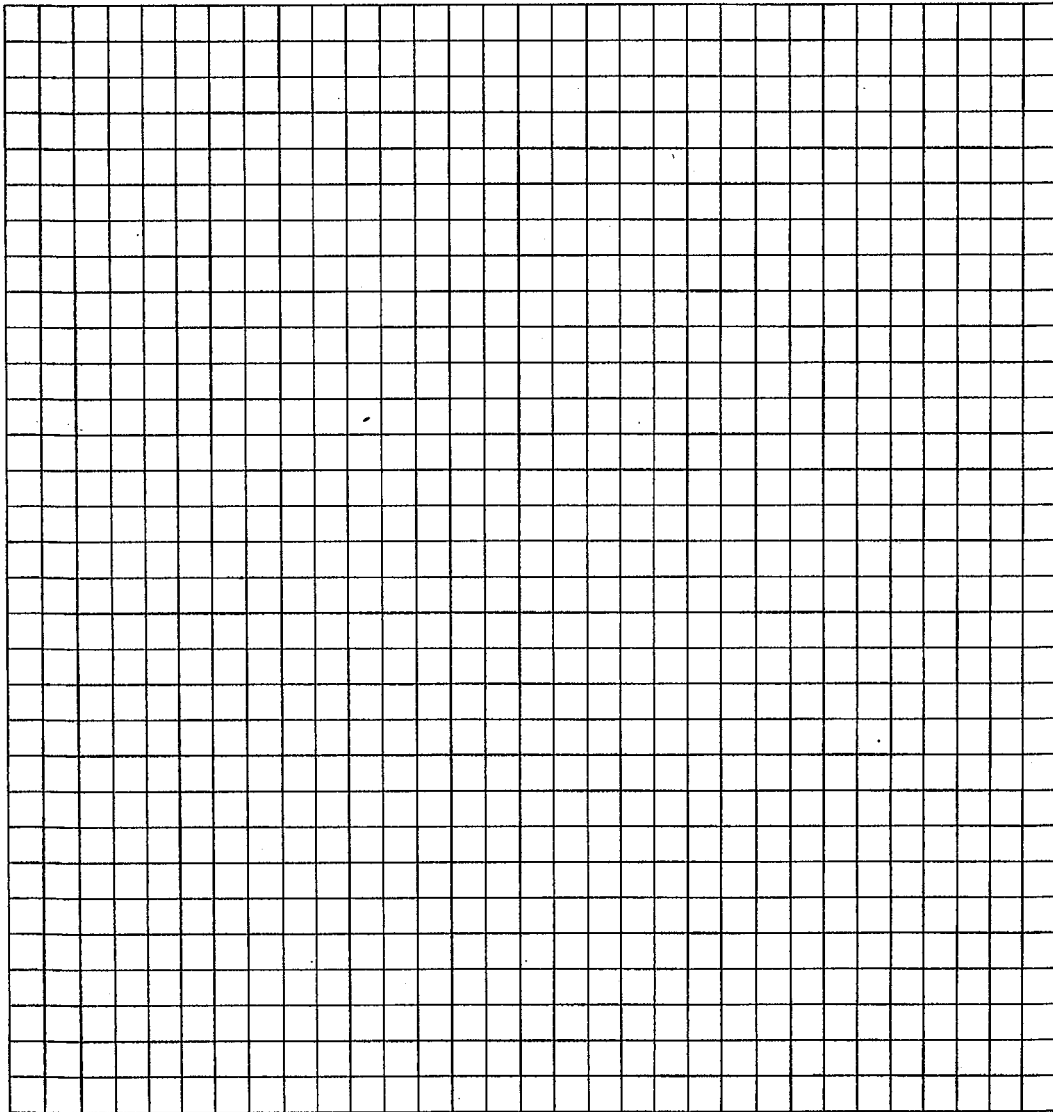
Step 1: Conduct a survey by asking at least 20 friends and family members a question. You may accept any response offered or you may create 5 – 7 responses from which to choose. Record your data in a tally chart.

Step 2: Create a tally sheet. Using the data collected, create a circle graph.

Step 3: Write a paragraph about your findings. Write two questions that can be asked using the data.

3) Floor Plan

Measure the perimeter of a room in your house. On the piece of graph paper draw the room. Include each piece of furniture. Label the length and width of each side of the room. Find the area of the room. What is the area that each piece of furniture takes up? How much space is not taken up by furniture? (Don't forget to label the area and perimeter with the unit of measure used)





4) Play Ball

A baseball player's batting average compares a player's times at bat with the number of hits. To compute a batting average, divide the number of hits by the at bats. The result will be a decimal, the higher the decimal the better the average.

Look in the sports section of your newspaper to find the batting averages of your child's favorite baseball player. Keep track of the player's at bats and hits for 7 days. Compute the batting average using the formula above.

Day	Number of Hits	Number of at bats
One		
Two		
Three		
Four		
Five		
Six		
Seven		

Math Websites

At the time this list was created, the websites listed were checked by teachers and deemed child appropriate. However, parents should always monitor their child's use of any Internet site. You can also Google many other online math games!

- www.xtramath.org
- www.xpmath.com
- www.mathisfun.com
- www.funbrain.com
- <http://www.math-play.com/Middle-School-Math-Games.html>
- www.multiplication.com
- www.aaamath.com
- <https://sites.google.com/site/gameonlearning/math-middle-school-games>