

Schuchard Elementary

**MATH**  
**ROCKS**

Summer Math Activities

For Students Entering Grade 4

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 4<sup>th</sup> grade. Practice your multiplication facts 3-4 times per week!

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.
- \* 2 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 4<sup>th</sup> grade. The teachers at Schwarzkoff will be so proud of your summer math work!

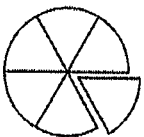
Happy Thinking!

# July

<p><b>Time</b></p>	<p>#1 What time was it when you got up this morning? What time was it 1 hour and 15 minutes later?</p>	<p>#2 At what time will the sun set this evening? What time was it 2 hours and 30 minutes earlier?</p>		<p>#3 Record today's date and the date of your next birthday.</p>	<p>#4 Draw clocks to show the following times: -When you woke up -When you ate lunch</p>	<p>#5 There are 24 hours in a day and 60 minutes in each hour. How many minutes are in a day?</p>
<p><b>Estimation</b></p>	<p>#6 In 2010, the population of Madison Heights was 29,694. Round that number to the greatest place.</p>	<p>#7 Find a grocery store receipt and staple it into your journal. Round the total to the nearest dollar.</p>	<p>#8 Plan a meal using a take-out menu. Estimate the cost of feeding your family.</p>		<p>#9 The area of Milford is 22 square miles. Round that number to the greatest place.</p>	<p>#10 Ask an adult to tell you when they recently used estimation. Share their story in your journal.</p>
<p><b>Addition</b></p>		<p>#11 Write and solve a summer story problem for this number sentence. <math>37 + 178 = \underline{\quad}</math></p>	<p>#12 List the people you live with and their ages. Find the total age.</p>	<p>#13 Write down your address. Add 256 to the number in your address. Then add 38 more.</p>	<p>#14 Arrange the digits 3, 4, and 8 to make the largest possible addends.</p>	<p>#15 The sum of two 2-digit numbers is 87. What could the two 2-digit numbers be?</p>
<p><b>Money</b></p>	<p>#16 List at least 5 different combinations of coins that would add up to 25 cents.</p>		<p>#17 If you bought candy at the store for \$1.35. How much changes would you get back from \$5.00</p>	<p>#18 Plan a meal for yourself from a take-out menu. List what you would buy and the total cost.</p>	<p>#19 Grab a handful of coins. Record how many of each coin you have. Find the total value.</p>	<p>#20 Cut out three grocery story coupons and paste them in your journal. How much did you save in all?</p>
<p><b>Subtraction</b></p>	<p>#21 Have someone help you measure the height of a door frame and your height. Find the difference.</p>	<p>#22 What were yesterday's high and low temperatures? Find the difference.</p>	<p>#23 Write a menu for your own restaurant. Include prices.</p>	<p>#24 Write and solve a summer story problem for this number sentence. <math>156 - 74 = \underline{\quad}</math></p>		<p>#25 Record your weight. How much would you have to lose to weigh 36 pounds?</p>

# August

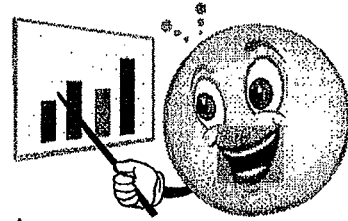
Multiplication	#1	In your journal show an array for $6 \times 4$ and $8 \times 3$	#2	Write and solve a summer story problem for $21 + 19 = \underline{\quad}$	#3	If you double your age, how old would you be? How old would you be if you tripled your age?	#4	Which day of the month were you born? Is your birthday a multiple of 2? 3? 4? 5? 10?	#5	Play a game! Flip it and Multiply (Directions below)	
	Measurement	#6	Using a ruler tape measure, or yard stick measure the length and width of your bed. Make a drawing in your journal and include the measurements.	#7	List 7 objects in your house that are more than 5 inches long but less than 10 inches long.	#8	Find the Nutrition Facts label on a cereal box. What is the serving size? Measure out the cereal. Do you usually eat more or less?	#9	List 4 different objects in your house that each weigh about 5 pounds.	#10	Make a list of places you think are about 1 mile from your house. Make a list of places you think are 10 miles away.
		Division	#11	Write and solve a division summer story problem for $56 - 16 = \underline{\quad}$	#12	In your journal show 12 pennies divided so that 4 are in each group.	#13	In your journal show 12 pennies divided equally into 4 groups. How is this drawing different from yesterday?	#14	Write the division facts that go with $5 \times 9 = 45$	#15
	Fractions	#16	List the names of 8 kids who live near you. What fraction of them is going into 4 <sup>th</sup> grade?	#17	Look at yesterday's list. How many kids would equal $\frac{1}{4}$ of the group?	#18	Draw a picture of the wheel of your bike. Into how many equal parts do the spokes divide the wheel?	#19	If you rode your bike $\frac{1}{2}$ mile today and $\frac{1}{4}$ mile yesterday, which day did you go further? Explain how you know the correct answer in your journal.	#20	Draw 20 small squares. Color $\frac{1}{4}$ of them red. Color the rest blue. How many of them are red?
	Geometry	#21	Draw a picture that shows the doors and windows on the front of your house. Can you draw a line of symmetry?	#22	Look around your bedroom. Which shape do you see the most? List at least 4 objects that are the same shape.	#23	Draw a picture of your house or someone else's house. Do you see any triangles? Where?	#24	Draw a pentagon inside of a square. How many sides are there in all?	#25	Draw a hexagon, a pentagon and then a square. Do you notice a pattern? What is the next shape?



**Parents/Guardians, please confirm completion of each task by writing your initials in the appropriate box.**

**Required Activity #1:**

# Take A Survey!

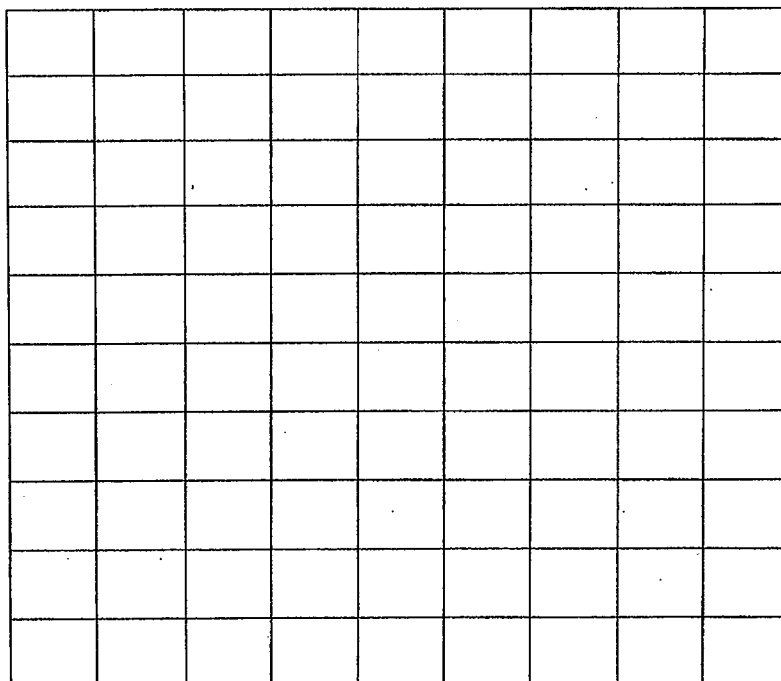


Think of a question to ask your friends and family. Write the question and identify at least 4 possible choices. (ex. Which of these is your favorite fruit – apple, banana, grapes or strawberries?)

Ask 10 friends and family members your question. Draw tally marks to record the answers.

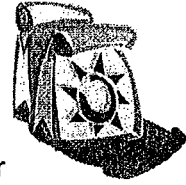
Answer Choice	Tally	Number

Make a bar graph to show your survey results.



**Required Activity #2:**

# What's in the Bag (Required Activity)?



Ask a family member or friend to put 10 coins (dimes and pennies) into a paper bag to conduct this experiment.

Step 1: Without looking into the bag, pull a coin out and record the type of coin in the tally chart below.

Step 2: Return the coin to the bag.

Step 3: Take turns doing this until each of you has done this 20 times.

Dimes	Pennies
Total:	Total:

Step 4: Use the results to make a prediction of how many dimes and how many pennies are in the bag.

Dimes \_\_\_\_\_ Pennies \_\_\_\_\_

Explain how you made your prediction

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Step 5: Look into the bag and count the actual number of dimes and pennies to check your prediction. Was your prediction accurate? Explain.

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# Flip It & Multiply

**Number of players:** 2

**Materials:**

A deck of playing cards (eliminating the face cards)

**Objective:**

The player with the most cards at the end is the winner.

**Directions:**

1. Mix the cards and deal them evenly to each player. Players place their stack of cards facedown in front of them.
2. Players simultaneously say, "1-2-3 Flip It" and turn over the top 2 cards from each of their piles.
3. Each player finds the product of his or her own two cards. *(For example, if a player flips a 7 and a 8, then the player multiplies  $7 \times 8$  to get 56.)* Both players call out their products.
4. The player with the greatest product takes all four cards and places them in a separate pile. *(For example, if player one flips a 9 and 3 and player two flips a 6 and 7 then player two is the winner of that hand because  $42 (6 \times 7)$  is greater than  $27 (9 \times 3)$ ).*
5. Play continues until all cards in the pile have been flipped or until time runs out.
6. If both players have the same product, then the players flip 2 more cards each. The player with greatest product keeps all 8 cards.

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