

Schuchard Elementary

MATH

ROCKS

Summer Math Activities

For Students Entering Grade 7

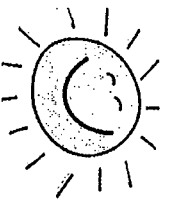
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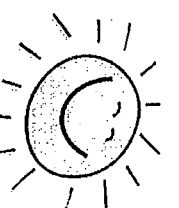
JULY

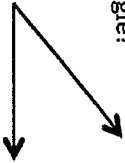
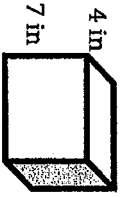
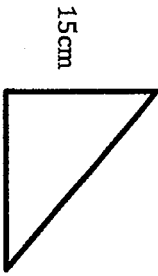
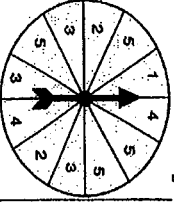


Week 1: Place Value	1. Jamie's temperature was 101.2 when she went to the doctor. This number is a. a little less than 102 b. a little more than 102 c. a little less than 101 d. a little more than 101	2. In 1999 there were 179.63 million tons of garbage generated. What is this number rounded to the NEAREST tenth ?	3. Round 8,592.37 to the nearest hundred.	4. What is 35.04 written in expanded form? Word form?	5. In Monica's school, semester grade averages are computed to two decimal places. Last semester, her grade average was 83.34. This semester it was 0.02 points higher. What is her grade average this semester?
Week 2: Fractions, Decimals, & Percent	6. Kim finished only $\frac{17}{20}$ of the question on her written test for a driver's license. What percent of the test did she finish?	7. What improper fraction is equal to $2\frac{3}{4}$? What is another way to write $\frac{5}{3}$?	8. Your family goes to dinner at Chili's. The total bill is \$43.00. You want to leave a 20% tip. How much money should you tip?	9. There are 640 students at Smith Junior High. 65% of them take band. How many students take band.	10. Draw a picture to solve the following problems: $\frac{1}{3} + \frac{2}{8}$ $\frac{8}{9} - \frac{2}{3}$ $\frac{5}{8} \times \frac{4}{5}$ $\frac{7}{12} \div \frac{1}{4}$
Week 3: Numbers and operations	11. Chris wrote this number sentence $6.2 - 1.05 = 5.25$ Is he correct? Show your thoughts or explain how you determined whether or not his answer was correct.	12. A puppy weighs 6.5 pounds. The puppy's mother weighs 10 times that much. How much does the mother weigh?	13. Mrs. Jones bought \$32.67 worth of groceries. If she gave the cashier \$40, what is her change?	14. Solve: $3.5 \times 9.5 =$ $\$7.80 \div 4 =$ $16.7 + 21.37 =$ $7.09 - 1.3 =$	15. Tim practices piano every day for 1.5 hours. What is the total number of hours Tim practices each week?
Week 4: Estimation	16. Mr. Finn buys 29 binders for his class. Each binder is \$4.99 including tax. Is Mr. Finn's estimate of \$300 reasonable ? Show and explain your thoughts?	17. A bean plant is growing at a rate of $\frac{7}{8}$ in per week. Estimate how much the plant will grow in 6 months.	18. Write an expression that could be used to estimate the sum of $403.6 + 89.1$	19. The length of a rectangular room is 11.8 meters and the width is 7.9 meters. Will $145m^2$ be enough to carpet the room? Explain your thinking.	20. Which expression show the closest estimate of 129.8-38.56 a. 120-40 b. 130-30 c. 130-39 d. 150-38



August



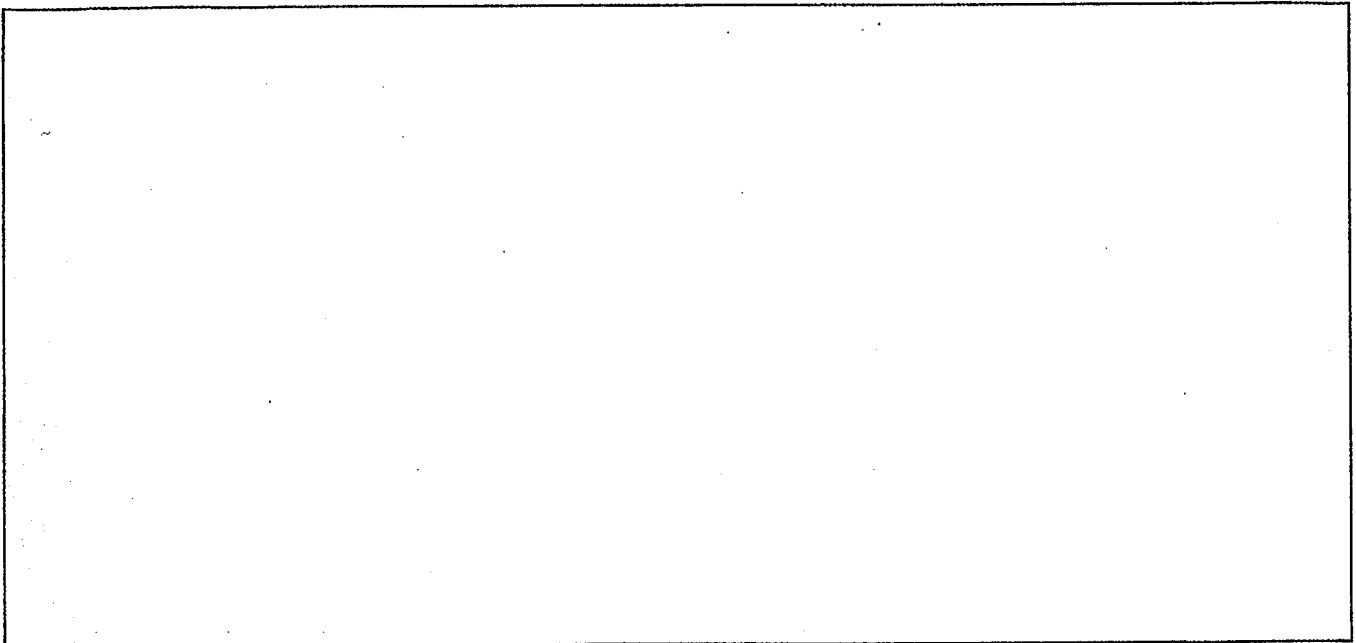
<p>Week 1: Ratios and Proportions</p>	<p>1. A smoothie recipe calls for 4 bananas for every 3 cups of yogurt added. If 16 bananas are used, how many cups of yogurt should be added?</p>	<p>2. Justin can read 12 pages in 20 minutes. How many pages can he read in 50 minutes?</p>	<p>3. Solve for X</p> $\frac{3}{7} = \frac{9}{x}$ $\frac{2}{x} = \frac{8}{24}$ $\frac{6}{7} = \frac{x}{49}$	<p>4. A radio station played 9 songs in 40 minutes. At this rate, how many songs will the radio station play in 2 hours (120 minutes)?</p>	<p>5. There are 5 blue marbles, 6 green marbles, and 9 orange marbles in a box. What is the ratio of: orange to blue marbles? blue to green marbles?</p>
<p>Week 2: Geometry</p>	<p>6. Write two complementary angles. Explain why they are complementary.</p> <p>Write two supplementary angles. Explain why they are supplementary</p>	<p>7. What is a good estimate of the measure of this angle?</p> 	<p>8. Find the <u>area</u> and <u>perimeter</u> of a rectangle that has a length of 12 inches and a width of 5 inches?</p>	<p>9. What is the <u>volume</u> of the prism below?</p> 	<p>10. What is the <u>area</u> of the triangle below?</p> 
<p>Week 3: More Percents!</p>	<p>11. Robby wants to buy a suitcase that is on sale. The suitcase regularly sells for \$178, but is on sale for 15% off. What is the sale price?</p>	<p>12. What is 75% of 256?</p>	<p>13. What is 45% of 525?</p>	<p>14. Maria bought a new Apple iPhone for \$300. The MI sales tax is 6%. What was the total cost of her new phone?</p>	<p>15. Tina invited 60 people to her graduation party. 42 people said they would attend. What percent are attending?</p>
<p>Week 4: Probability</p> 	<p>16. Use the spinner to answer the questions 16-18. What is the probability of the arrow landing on a 5?</p>	<p>17. What is the probability of the arrow landing on an even number?</p>	<p>18. What is the probability of the arrow landing on a number greater than 2?</p>	<p>19. What is the probability of rolling a 5 on a dice AND getting tails on a quarter?</p>	<p>20. There are 50 DVD movies in a bin. 7 comedies, 10 musicals, 13 dramas, and 20 action films. What is the probability of reaching into the bin and selecting a comedy OR an action movie?</p>

Activities: Choose 3 of the following

Activity 1:

Measure the perimeter of your kitchen. Draw a rough sketch of your kitchen below. Label the length and width of each side of the room. Then calculate the perimeter and area of the kitchen.

Rough Sketch:



Perimeter:

Area:

Activity 2:

Measure the height of each of your family members using metric measures (**centimeters** and **meters**). Write the names of each family member below and their height. Then order your family members from tallest to shortest.

Family Member	Height

Order (from tallest to shortest):

Activity 3

Decide on a recipe you would like to cook or bake. Rewrite the recipe **tripling** it. How much of each ingredient do you need now?

Ingredients	Amount Needed

Activity 4

Look through a grocery store flyer. Find the cost of 3 different items that are sold by weight (fruits, vegetables, deli meats). Decide with a family member how much of each item you need for your family. How much will each item cost? What will be the total cost for all 3 items?

Item	Amount Needed	Cost	Total Cost Per Item
Total			

Activity 5

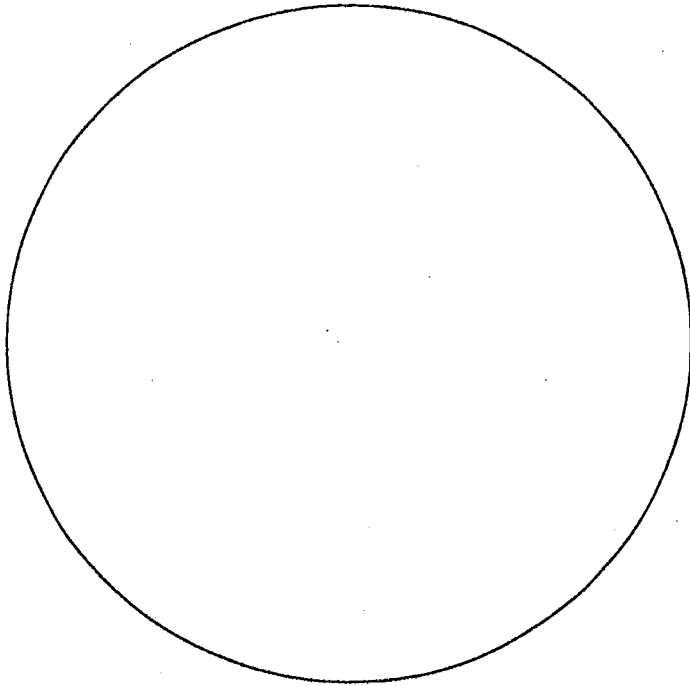
Use a package of M&Ms to determine the probability of picking out each color from the bag. Count and list the different colors. Then list the probability of picking out each color if they were all put back in the bag together. Write the probability as a fraction, and then use

a calculator to write it as a percent.

Color	Number	Probability as a Fraction
TOTAL		

Activity 6

Keep track of the time you spend on different activities for one day (24 hours). Make a circle graph showing how you spent your day.



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>