



## Get ready for First Grade!

In Kindergarten, instructional time in math focused on two critical areas:

### **Critical Area One**

representing, relating, and operating on whole numbers, initially with sets of objects; and

### **Critical Area Two**

describing shapes and space. More learning time in Kindergarten should be devoted to number than to other topics.

The following summer math activities will enable your child to review math concepts and reinforce skills learned this year. Just a few minutes each day spent “thinking and talking math” will help reinforce the math that has been learned and begin to bridge the foundation for extending to the concepts that will be developed next year. The goal is for your child to have fun thinking and working collaboratively to communicate mathematical ideas. While your child is working, discuss the math concept being reinforced.

Sun	Monday	Tuesday	Wednesday	Thursday	Friday	Sat.
.	<b>1</b> Read Shape, Shape, Shapes by Tana Hoban or talk about shapes with your student. Walk outside. What shapes do you see? Draw all the shapes you see. Count them.	<b>2.</b> Look at some of your toys. Try to sort them into groups. (by color, by size, by shape, by type) How many are there in each group?	<b>3</b> Count how many shoes YOU have. Write down the number. Count how many shoes another family member has. Write down the number. Who has more/less?	<b>4</b> Pick a room in your house? How long is it? Measure with blocks or toys. Measure with your feet. Which was more? Which is less?	<b>5</b> Use side walk chalk to write all the numbers (in order) that you can. Next to each number draw that many suns. (Use paper and pencil if you do not have chalk)	6
7	<b>8</b> Find 10 coins Toss the ten coins. How many land heads up? How many land tails up? Record your numbers. Did you get the same result? Keep repeating!	<b>9</b> Let's go shopping! In my cart I have 12 eggs, six apples, and 3 cans of soup. Draw a picture of my cart and what is inside. What do I have the most of?	<b>10</b> Hop on your right foot and count how many hops you can do. Hop on your left foot and count how many hops you can do. Which foot could you hop on more? Which foot could you hop on less? Compare.	<b>11</b> Ask your family and friends "Do you like sharks or lions better?" Record everyone's answers. Which animal did people like the most/least or were they the same?	<b>12</b> Count backwards how long it will take you to put on your shoes. For example when you start putting them on count 20, 19, 18...	13
14	<b>15</b> Grab a handful of objects. (Pennies, beads, marbles...) Guess how many there are. Count your objects. Were you close to your estimate?	<b>16</b> Keep track of the weather for one week. How many sunny days? Rainy days? How many more rainy days than sunny days? Were there any windy days?	<b>17</b> Count the people that live in your house with you. How many toes do they have altogether? How many fingers? Draw a picture and label it.	<b>18</b> Write your name on a piece of paper. How many letters are there in your name? Write each family member's names on a paper too. How many letters are there in their names? Write the number beside each name.	<b>19</b> Walk around the house. How many steps does it take you to get around your house? Then try giant steps. Which used more steps? Make sure you start and stop at the same spot!	20
21	<b>22</b> How many jumping jacks can you do in one minute? Is it more or less than 20? How do you know?	<b>23</b> Read a counting book or talk about counting with someone and then make one of your own counting book. Did you decide to make it counting forward or backwards?	<b>24</b> Make a picture using 2 circles, 3 triangles, 1 square, and 5 rectangles. Explain how you made it to someone! Have them count all the shapes.	<b>25</b> Try to explore... <a href="http://playkidsgames.com/">http://playkidsgames.com/</a> What math did you learn? If you can't explore a website, come up with your own math game and have someone play with you!	<b>26</b> Count backwards starting at 10... Then starting at: 15... Then starting at: 20...	27
28	<b>29</b> Make numbers or shapes out of play-dough. If you don't have play-dough draw shapes and numbers. Count how many numbers you drew. Count how many sides your shapes have	<b>30</b> Talk with someone about things you might find outside. (rocks, leaves, sticks) Go outside on a nature walk and collect small items you find. Sort them by color, shape, or size and count them.				

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			<b>1</b> Draw and label a picture of your family from tallest to shortest. Measure them using blocks, your feet, your hands, forks, pencils, etc. Remember to have them lie down!	<b>2</b> Count the number of steps it takes to get from your front door to the refrigerator and from your front door to the bathroom. Represent these numbers. Which took longer?	<b>3</b> Draw three cube towers, the first with 3 cubes, the second with 5 cubes, and the third with 7 cubes. Circle the tower that is the tallest and put an X on the tower that is the shortest.	<b>4</b>
<b>5</b>	<b>6</b> Three dogs were playing in the park. One more dog came to play. How many dogs are playing in the park? Draw a picture	<b>7</b> Name five different places you see numbers outside. (on street signs, stores, license plates...) Draw a picture of the places.	<b>8</b> Bobby Bear is missing 5 buttons on his jacket. How many ways can you use blue and red buttons to finish his jacket? Draw a picture of all your ideas. For example, 4 red and 1 blue, 2 red and 3 blue, etc.	<b>9</b> Draw a picture that is divided into 3 parts. Label them morning, afternoon, and night. Draw a picture of what you do at each of these times. Which time of the day do you do the most things?	<b>10</b> Complete a yes/no survey asking the people in your house, "Do you like the rain?" Record their answers by writing Yes and No. How many people said yes? How many people said no?	<b>11</b>
<b>12</b>	<b>13</b> Find 10 pennies. See how many different ways you can make the number 10. 5 heads and 5 tails, 7 heads and 3 tails, 7 tails and 3 heads, etc. Record your findings with pictures or equations.	<b>14</b> Find a partner. Each person hides their hands behind their back. Then say 1, 2, 3 GO! On GO, show a number on your fingers...1, 2, 3, 4, ... Did your partner show the same number? More? Or less? Repeat!	<b>15</b> Play a strategy game Connect 4 or Checkers Did your strategy work? Will you try a different strategy the next time you play? If you don't have a game, see who can jump the most in 1 minute. Record your answers.	<b>16</b> Estimate how many bites it will take to finish your cereal, soup, rice, sandwich, etc. before you start eating! Count each bite as you eat. How close were you to your estimate? Were you over or under?	<b>17</b> Go around your house and count the windows and doors. Are there more windows or doors? Draw the one with more.	<b>18</b>
<b>19</b>	<b>20</b> Pick a number from 1-12. Find that number around your house! Look at clocks, phones, books, magazines, etc... Pick another number and repeat!	<b>21</b> Name different objects that come in groups of 1,2,3,...etc. (12 eggs in a carton) Make your own book from 1 to 12 drawing a different group of objects for each number! Be sure to add a title.	<b>22</b> I am thinking of a number. It has 1 ten and 5 ones. What number am I thinking of? (15) Make up some riddles using tens and ones. (1-19)	<b>23</b> See how many people you can get to exercise with you. Do 10 jumping jacks, 10 push-ups, 10 sit-ups, and 10 toe-touches. How many exercises did you do? Count by 10's.	<b>24</b> Practice "counting" on from numbers other than 1. Example: Start at 4 and stop at 18, start at 17 and stop at 20, start at 3 and stop at 10. Now come up with your own start/stop numbers.	<b>25</b>
<b>26</b>	<b>27</b> Build something with 20 blocks or Legos. Describe your structure and the shapes you used. Draw your structure and label it.	<b>28</b> Play with bubbles. How many can you blow in one minute? (you can use bubble gum or bottle bubbles) Draw a picture and label your bubbles with numbers.	<b>29</b> Set the table for dinner! How many plates do you need to put out? How many forks? How many glasses? Draw a picture of the table. How many ITEMS are on the table altogether?	<b>30</b> Describe 2 different ways to make the number 10. You can use colors, heads/tails, shapes, pictures, etc. (8 blue circles and 2 red squares, 3 heads and 7 tails, 9 trees and 1 sun, etc.	<b>31</b> <b>4 children ride bikes. Then 2 more children join them. How many children are riding bikes now?</b>	

## Great Math Literature for summer reading

### First Grade Math Literature:

Aker, Suzanne. *What Comes in 2's, 3's, and 4's?*  
Angelou, Maya. *My Painted House, My Friendly Chicken and Me.*  
Anno, Mitsumasa. *Anno's Counting Book.*  
Anno, Mitsumasa. *Anno's Counting House.*  
Baer, Edith. *This Is the Way We Eat Our Lunch.*  
Bang, Molly. *Ten, Nine, Eight.* (Available in Spanish)  
Barton, Byron. *Building a House.*  
Bogart, Jo Ellen. *Ten for Dinner.*  
Briggs, Raymond. *Jim and the Beanstalk.*  
Burningham, John. *Would You Rather...*  
Burns, Marilyn. *The Greedy Triangle.*  
Carle, Eric. *Rooster's Of to See the World.*  
Cooper, Jason. *Skyscrapers: Man-Made Wonders.*  
Crews, Donald. *Ten Black Dots.* (Available in Spanish)  
Crosbie, Michael and Rosenthal, Steve. *Architecture, Shapes.*  
Dale, Penny. *Ten in Bed.*  
DeRubertis, Barbara. *Count on Pablo.* (Math Matters Series.)  
Dorros, Arthur. *This Is My House.*  
Duke, Kate. *Twenty is Too Many.*  
Ehlert, Louise. *Fish Eyes.*  
Emberley, Rebecca. *My Numbers Mis Numeros.*  
Falwell, Cathryn. *Feast for Ten.*  
Felix, Monique. *The House.*  
Friedman, Aileen. *A Cloak for the Dreamer.*  
Gauch, Patricia Lee. *Christina Katerina and the Box.*  
Grossman, Bill. *My Little Sister Ate One Hare.*  
Grossman, Virginia and Sylvia Long. *Ten Little Rabbits.*  
Hamm, Diane Johnson. *How Many Feet in the Bed?*  
Harris, Trudy. *100 Days of School.*

Hoban, Tana. *Cubes, Cones, Cylinders, & Spheres.*  
Hoban, Tana. *Shapes, Shapes, Shapes.*  
Jonas, Ann. *The Quilt.*  
Jonas, Ann. *Splash.*  
Karavasil, Josephine. *Houses and Homes Around the World.*  
Kassirer, Sue. *What's Next, Nina?* (Math Matters Series.)  
Kushkin, Karla. *The Philharmonic Gets Dressed.*  
Lionni, Leo. *Inch by Inch.*  
Lobel, Arnold. "A Lost Button," in *Frog and Toad Are Friends.*  
McBratney, Sam. *Guess How Much I Love You.*  
Merriam, Eve. *12 Ways to Get to 11.*  
Metropolitan Museum of Art. *Museum Shapes.*  
Micklethwait, Lucy. *I Spy Two Eyes: Numbers in Art.*  
Mora, Pat. *Uno, Dos, Tres, One, Two, Three.*  
Morris, Ann. *Houses and Homes.*  
Murphy, Stuart J. *Animals on Board.*  
Murphy, Stuart. *The Best Vacation Ever.*  
Murphy, Stuart J. *Super Sand Castle Saturday.*  
Onyefulu, Ifeoma. *Emeka's Gift: An African Counting Story.*  
Paul, Ann Whitford. *Eight Hands Round: A Patchwork Alphabet.*  
Peek, Merle. *Roll Over! A Counting Song.*