



## **Summer Mathematics Activities to Do at Home Incoming Grade 6**

### ***Number and Operations in Base 10***

- Estimate and find the sums and differences of items at the store and in restaurants.
- Find the batting averages or other statistics in the sports section of a newspaper and add or subtract the statistics.
- Roll or pick numbers to create decimals. Add, subtract, multiply, or divide the decimals.
- Roll multiple dice to create a number and write the digits of the numbers they roll. Have your child identify the place value and value of different digits in that number.
- Roll or pick numbers to create decimals. Compare and order the numbers.
- Choose a four-digit number. Multiply and divide by powers of 10 (10, 100, 1,000, etc.) by moving the decimal point left or right as appropriate.
- Practice basic addition, subtraction, multiplication and division facts.

### ***Number and Operations - Fractions***

- Find examples of fractions around the house or neighborhood. Add, subtract, multiply, divide or simplify the fractions that you find.
- Create numbers to use in fractions. Draw these fractions as parts of a whole or set.
- Use measuring cups when baking or cooking.
- Identify the use of decimals in sporting events and in newspapers.
- Draw different shapes. Divide them into different fractions.

### ***Operations and Algebraic Thinking***

- Make up numbers, roll numbers with dice, or find numbers (on labels) and compare them.
- Create a number pattern and have your student write the rule.
- Find numbers and write them in expanded form.
- Draw pictures and make models of numbers.

- Ask your child to find the missing factor. For example,  $5 \times \text{what number?} = 75$ ?

### ***Measurement***

- Find the volume of real-world objects in your home.
- Estimate the size of a room in your home. Determine the area and volume of the room. Think about different ways you could figure out the volume without measuring with a yardstick or measuring tape.
- Take the measurements of your bedroom. Determine the amount of carpet needed to cover the floor. Determine the amount of wallpaper to cover your walls.

### ***Geometry***

- Make flash cards of different geometric figures and their properties.
- Identify different plane and solid figures in your environment.
- Write clues to describe polygons. Have someone to guess the polygon with the provided clues.
- Use a compass or computer to draw geometric figures.

### ***Suggested Websites:***

- Khan Academy: [www.khanacademy.org](http://www.khanacademy.org)
- Prodigy: [www.prodigygame.com](http://www.prodigygame.com)
- Figure This: <http://figurethis.nctm.org/>
- Math Forum: <https://www.nctm.org/mathforum/>
- Guinness World Records: <http://www.guinnessworldrecords.com/>
- NRICH: <https://nrich.maths.org/>
- National Library of Virtual Manipulatives: <http://nlvm.usu.edu/>
- Illuminations: <https://illuminations.nctm.org/>