

## FOCUS AREAS FOR FOURTH GRADE:

- ▶ Solve multi-step word problems using multiplication, division, addition, and subtraction. For example, find the total area of two rooms.
- ▶ Understand that multiplication and division can be used to compare quantities. For example, explain that a rubber band can stretch to *three times* its usual length.
- ▶ Understand and use equivalent fractions (like  $\frac{1}{2}$  and  $\frac{3}{6}$ , which are the same) and unit fractions (like  $\frac{1}{3}$  or  $\frac{1}{5}$ , with a 1 on top).
- ▶ Describe, analyze, compare, and classify shapes using types of lines and angles. For example, compare the types of angles in two triangles.



## BY THE END OF FOURTH GRADE, STUDENTS CAN:



- ▶ Know multiplication facts up to  $12 \times 12 = 144$  and their related division facts (like  $144 \div 12 = 12$ ).
- ▶ Multiply and divide multi-digit whole numbers (like 536 and 23) using various strategies.
- ▶ Fluently (quickly and correctly) add and subtract numbers up to 1,000,000 using the standard algorithm.
- ▶ Add and subtract fractions and mixed numbers (like  $4\frac{2}{5}$ ) with the same denominator (number on the bottom).
- ▶ Multiply fractions by whole numbers: for example,  $\frac{1}{4} \times 5$ .
- ▶ Understand how decimals and fractions are related: for example,  $0.63 = \frac{63}{100}$ .
- ▶ Convert larger measurement units (like *miles, hours, or liters*) to smaller units (like *feet, minutes, or milliliters*).
- ▶ Use formulas (like *length x width*) for the area and perimeter of rectangles.
- ▶ Use a protractor to measure and draw angles.

## QUESTIONS YOU CAN ASK YOUR CHILD:

- ▶ How many times older am I than you?
- ▶ We need half a cup of milk for this cake. How many times should we fill the  $\frac{1}{4}$ -cup measure with milk?

## TOPICS YOU CAN DISCUSS WITH YOUR CHILD'S TEACHER:

- ▶ Which multiplication and division strategies work best for your child?
- ▶ Activities to do at home that use fractions (like baking)

