



FOCUS AREAS FOR SIXTH GRADE:

- ▶ Solve word problems with ratios and rates. For example, use ratios to compare how many votes two candidates received in an election.
- ▶ Understand and use negative numbers. For example, explain which temperature is colder: -9 degrees or -20 degrees.
- ▶ Use variables (like x) and write expressions (like $8x + 7$) and equations to solve problems. For example, use a formula to find the volume of a swimming pool.
- ▶ Understand and use language related to basic statistics. For example, ask questions like *How much water do people use in my town?*
- ▶ Solve real-world problems related to area, surface area, and volume. For example, find how much paint is needed to paint a room.

BY THE END OF SIXTH GRADE, STUDENTS CAN:



- ▶ Explain the concepts of ratio and unit rate.
- ▶ Solve problems by finding the percentage of a quantity (like 70% of 280).
- ▶ Divide fractions by other fractions: for example, $\frac{2}{3} \div \frac{3}{4}$.
- ▶ Fluently (quickly and correctly) divide multi-digit numbers (like 684) using the standard algorithm.
- ▶ Fluently (quickly and correctly) add, subtract, multiply, and divide multi-digit decimal numbers (like 47.06) using the standard algorithms.
- ▶ Place negative fractions, positive fractions, and whole numbers on a number line.
- ▶ Compare and find the value of algebraic expressions (like $y + y + y$ and $3y$).
- ▶ Use a grid (graph) to show how two variables (like distance and time) are related.
- ▶ Find the median (middle number), mean (average), mode (most common number), and range (distance between the lowest and highest numbers) of a data set.
- ▶ Create visual displays of data: for example, dot plots, histograms, and box plots.

QUESTIONS YOU CAN ASK YOUR CHILD:

- ▶ How long will it take to drive home if we go 30 miles per hour?
- ▶ How many goals does your soccer team typically score?

TOPICS YOU CAN DISCUSS WITH YOUR CHILD'S TEACHER:

- ▶ Ways to practice using ratios and rates at home
- ▶ Your child's fluency with basic operations (addition, subtraction, multiplication, and division)

