

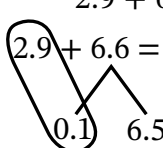
# FAMILY MATH

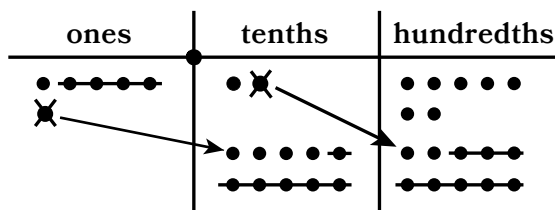
## Addition and Subtraction of Decimal Numbers

Dear Family,

Your student is adding and subtracting decimal numbers by using familiar methods. They notice the strategies they used to add and subtract whole numbers and fractions can also be used to add and subtract decimal numbers. Your student estimates to check that their answer is reasonable. They also rename a fraction as a decimal number to solve addition and subtraction word problems.

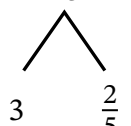
$$2.9 + 6.6 = 9.5$$

$$2.9 + 6.6 = 3 + 6.5 = 9.5$$


$$6.27 - 4.68 = 1.59$$


$$\begin{array}{r} 11 \\ 5 \overline{) 6.27} \\ - 4.68 \\ \hline 1.59 \end{array}$$

To add and subtract decimal numbers, students can use methods and tools such as making the next unit, vertical form, and place value charts.

$$5.83 - 3\frac{2}{5} = 5.83 - 3.4 = 2.43$$


$$\frac{2}{5} = \frac{2 \times 2}{5 \times 2} = \frac{4}{10}$$

$$\frac{4}{10} = 0.4$$

$$\begin{array}{r} 5.83 \\ - 3.4 \\ \hline 2.43 \end{array}$$

When an addition or subtraction problem gives one number as a fraction and the other as a decimal number, students can rename one of the numbers so that both numbers are in the same form.

## At-Home Activities

### Shopping Receipts

Use shopping receipts to help your student practice adding and subtracting decimal numbers. Save a receipt from a shopping trip or look at prices online and ask your student to find sums and differences. For example, invite your student to

- add to find the total cost of two items, such as the total cost of two cans of soup or the total cost of a ball and a stuffed animal.
- subtract to find the difference in cost between two items or two different brands of the same type of item.

### Fractions to Decimal Numbers

Invite your student to practice renaming fractions as decimal numbers to make adding and subtracting simpler. Discuss situations where one number is a fraction and the other is a decimal number.

- Leo is  $4\frac{1}{2}$  feet tall. Sasha is 5.25 feet tall. How many feet taller is Sasha than Leo? ( $5.25 - 4.5$ )
- Lacy is buying wood to build a rectangular fence for her garden. She needs a total of 6.75 yards for the length and a total of  $3\frac{2}{5}$  yards for the width. How many yards of wood does Lacy need to buy altogether? ( $6.75 + 3.4$ )
- Adesh is making pizza dough for a family dinner. He needs  $1\frac{1}{4}$  cups of flour for a medium pizza and 0.75 cups of flour for a small pizza. How many cups of flour does Adesh need to make both pizzas? ( $1.25 + 0.75$ )