

Grade 4 Module 6

Tips for Families

Key Concepts Overview

Focus TEKS: 4.2A, 4.2B, 4.2E, 4.2F, 4.2G, 4.2H, 4.3C, 4.3G, 4.4A, 4.8C, 4.10A, 4.10B, 4.10C, 4.10D, 4.10E

The focus of Module 6 is exploring **decimal numbers** (**tenths** and **hundredths**); applying that understanding to compare, order, add, and subtract decimal numbers; and extending that understanding to the real-world context of money and personal financial literacy. Your student will:

- ☐ Represent numbers in decimal form, fraction form, **fraction expanded notation**, **decimal expanded notation**, and unit form.
- ☐ Shade area models to represent a mixed number and locate the number on a number line.
- ☐ Plot and label points on a number line to represent decimal numbers written in fraction form and decimal form.
- ☐ Compare and order decimal numbers.
- ☐ Add and subtract tenths and hundredths.
- ☐ Solve word problems requiring the addition or subtraction of numbers written in decimal form.
- ☐ Determine the value of an amount of money by using unit form (dollars and cents) and then express the value in fraction form and in decimal form.
- ☐ Manage an allowance by determining how to allocate the funds between **fixed expenses** and **variable expenses**.
- ☐ Determine **profit** earned from the selling of goods or services.

You can use the checklist above to help monitor your student's progress of the knowledge and skills in this module. Daily sample problems with solutions and thought bubbles are found in the Homework Helper pages in the Succeed Student Edition to help you support your student as they work at home.

Additional Ways to Help at Home

- On index cards or small pieces of paper, write each of the fractions, in tenths, from $\frac{1}{10}$ to $\frac{10}{10}$ (i.e., $\frac{1}{10}$, $\frac{2}{10}$, $\frac{3}{10}$, ..., $\frac{10}{10}$). On another set of index cards, write each of the decimal numbers, in tenths, from 0 to 1.0 (i.e., 0.1, 0.2, 0.3, ..., 1.0). Create a game using the cards. For example, play a memory game to create matches of equivalent amounts (e.g., $\frac{1}{10}$ and 0.1). The person with the most matches wins. For a challenge, change the objective to creating matches of pairs that add up to 1 (e.g., $\frac{1}{10}$ and $\frac{9}{10}$ or 0.2 and $\frac{8}{10}$).



- Use a mapping app on a smartphone or access a website that can be used to determine the distance from one place to another. Help your student find the distance from your home to five different points of interest near you, such as a gas station, restaurant, library, post office, and school. Have him record each distance, read it in decimal form, identify the value of each digit, and then order the distances from least to greatest. If you do not have access to a smartphone or the internet, consider making up distances.
- Complete the “Piggy Bank on It” activity. Discuss budgeting with your student. Ask her to research the cost of an item she would like to purchase and then budget a fictional allowance amount among saving to purchase the item, other expenses, and long-term savings. Have her share her budget.

Terms

Decimal expanded notation: expanded notation that expresses place value units smaller than one as decimal numbers

$$(e.g., (3 \times 100) + (7 \times 10) + (8 \times 1) + (7 \times 0.1) + (3 \times 0.01) = 378.73)$$

Fixed expense: a cost that is consistent over time

Fixed Expenses	
Rent	
Insurance	
Car payment	
Internet fees	
Bus pass	

Fraction expanded notation: expanded notation that expresses place value units smaller than one as fractions with denominators of 10 or 100

$$(3 \times 100) + (7 \times 10) + (8 \times 1) + (7 \times \frac{1}{10}) + (3 \times \frac{1}{100}) = 378\frac{73}{100}$$

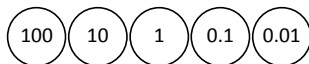
Variable expense: a cost that may vary or change over time

Variable Expenses	
Groceries	Dining out
Movie tickets	Electricity
Taxes	
Gas	
Clothing	

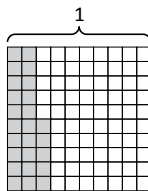


Models

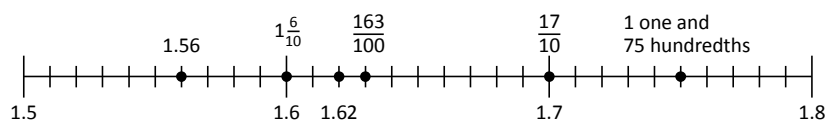
Place Value Disks



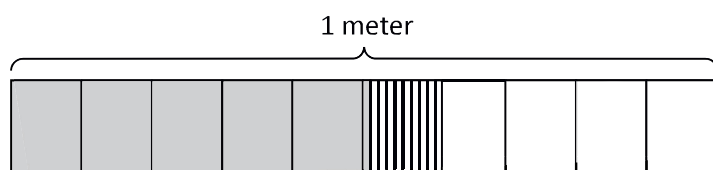
Area Model



Number Line



Strip Diagram/Meter Stick



$$(5 \times \frac{1}{10}) + (1 \times \frac{1}{100}) = 0.51$$

0.51 meter shaded

