



GO Lesson Opener

Making Connections

Invite students to tell you what they know about U.S. bills and coins.

What are the names of the coins we use? (penny, nickel, dime, quarter) How much is each coin worth? (1 cent, 5 cents, 10 cents, 25 cents) What are the values of the dollar bills we use? (Possible answers: one dollar, five dollars, ten dollars)

Using the Digital Lesson

Have students use play money or have them draw bills and coins to model the bills and coins in the problem.

Learning Task

- What problem does Doc want to solve? (to find out how much money is in the golf cart)
- What strategy can you use to solve this problem? (List the value of each coin and bill, the number of coins and bills, and then add.)
- What is a reasonable estimate for the amount of money in the pile? (\$15)

Literacy and Mathematics

You may choose one or both of the following activities.

- Have students write a story about a character who earns some money helping others around the house.
- Have students draw pictures of coins (pennies, nickels, dimes, and quarters) and bills, labeling each coin or bill with its value.



Texas Essential Knowledge and Skills

TEKS Number and Operations—3.4.C

Determine the value of a collection of coins and bills

MATHEMATICAL PROCESSES

- **3.1.A** Apply mathematics to problems
- **3.1.C** Select tools, technology, and techniques

Are You Ready?

Access Prior Knowledge

Use the Are You Ready? 4.6 in the Assessment Guide to assess students' understanding of the prerequisite skills for this lesson.

Vocabulary



Multimedia eGlossary at DIGITAL thinkcentral.com

Materials

play money



Resources

For the student



Interactive **Student Edition** provides students

with an interactive learning environment!

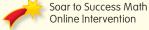


Math on the Spot Video Tutor





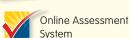
iTools Virtual Manipulatives



For the teacher

Digital Management Center organizes program resources by TEKS!





Lesson 4.6 131A

2 the 5 Es EXPLORE

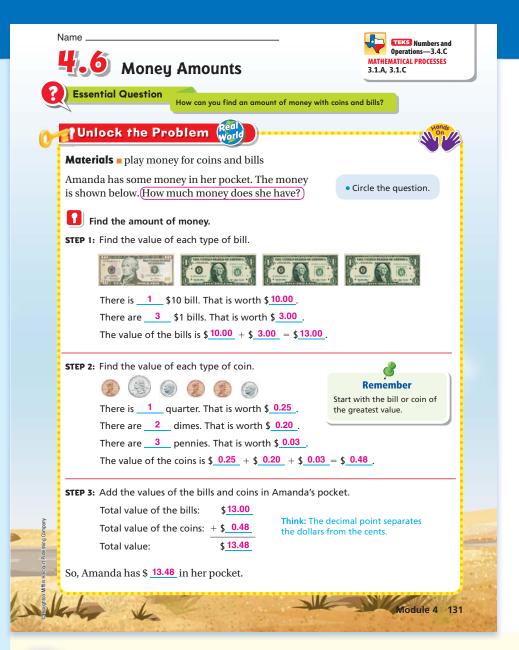
Unlock the Problem



Have students find the amount of money in Amanda's pocket. You may need to remind students how to draw simple representations of coins using a circle with the value written in the center.

- Why is it helpful to order the bills from the greatest to least value before finding their value?
 Possible answer: it is easier to find the values when the bills are in order from greatest to least value.
- Are large-size coins always worth more than smaller coins? Possible answer: No, larger coins are not always worth more than smaller coins. Dimes are worth more than nickels even though they are smaller than nickels
- How can you use skip counting to find the value of like coins? Possible answer: I can count by 25s for quarters, by 10s for dimes, by 5s for nickels, and by 1s for pennies.

ELL English Language Learners Leveled Activities Beginning: Activity 31 Intermediate: Activity 53 Advanced: Activity 15 Advanced High: Activity 18 Go to thinkcentral.com for the ELL Activity Guide containing these leveled activities.



Differentiated Instruction

ELL Language Support

ELPS 3.F.2, 4.F.2

Strategy: Explore Context

Materials: pennies, nickels, dimes, quarters, one-dollar bill, five-dollar bill

Show students each coin. As you show the coins, write the name of the coin
on the board and ask volunteers to say how much each coin is worth. Say
the names of the coins aloud for the students to repeat.

Verbal/Visual/

Auditory

- In the U.S., coins are all part of one dollar, and one dollar equals 100 cents.
- Show the one-dollar and five-dollar bills. They have different values, but same size.
- Remind students that the size of a U.S. coin is not related to its value. A
 dime is smaller than a penny, but it is worth more.



The dime is smaller than the penny, but its value is greater.

Share and Show



Find the amount of money.



two \$5 dilis	= \$ 10.00
+ one \$1 bill	= \$ <u>1.00</u>
+ 2 quarters	= \$ <u>0.50</u>
+ 4 dimes	= \$ _0.40
+ 3 nickels	= \$ <u>0.15</u>
+ 6 pennies	= \$ <u>0.06</u>
total value	= \$ <u>12.11</u>

∅ 2.





\$17.00













\$2.54

Problem Solving

Write the value of the bills or coins.



\$20.00



















6. Daniel has one \$10 bill, five \$1 bills, 3 quarters, 1 dime, and 3 nickels. How much money does Daniel have?

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Math Talk: Possible explanation: You need to regroup the number of cents to dollars



Enrich



Partners

Materials: play money

- Organize students into pairs.
- Ask students to use bills and coins to show \$2.46. They should record
- Ask them to find a different way to show the same amount, and record their results.









Go to thinkcentral.com for additional enrichment activities in the Enrich Activity Guide.

Share and Show

The first problem connects to the learning model. Have students use the MathBoard to explain their thinking.

Use the checked exercises for Quick Check. Students should show their answers for the Quick Check on the MathBoard.









a student misses the checked exercises



Differentiate Instruction with Rtl Tier 1 Lesson 25

Problem Solving

Have students complete the problems on their own.



COMMON ERRORS

Error Student writes money amounts less than \$0.10 incorrectly.

Example Student writes \$0.07 as \$.7 or \$0.70

Springboard to Learning Remind students that the decimal point separates dollars and cents. If they have less than 10 cents, they place a zero to the right of the decimal point to show no dimes, Then they write the number of cents to the right of the zero.

Go Deeper

Have students describe the greatest number of coins they could have for Exercise 5.



Problem

Problem 6 describes the amount of money Daniel has with words and asks students to total the amount of money. Encourage students to draw the money if needed to solve the problem.

Math Talk Mathematical Processes



Use Math Talk to focus on students' understanding of regrouping coins.

Problem Solving

H.O.T. Problems

Problem 7 requires students to use higher order thinking skills and multiple steps to solve the problem. Have students read the problem and discuss strategies to find the solution.

Give students an opportunity to share their solution for this problem with the class.

Problem 8 is a multi-step problem where students count the coins and bills to find the amount of money Charlie earned. Knowing how much the additional lemonade will cost, students then decide if Charlie can afford more lemonade. Finally, students must find the amount of money Charlie will have left, after buying the lemonade.



Math on the Spot Video Tutor

Through the *Math on the Spot Video Tutor*, students will be guided through an interactive solving of this type of H.O.T. problem. Use this video to also help students solve the H.O.T. problem in the Interactive Student Edition. With these videos and the H.O.T. problems, students will build skills needed in the TEXAS assessment.



(a) Math on the Spot videos are in the DIGITAL Interactive Student Edition and at thinkcentral.com.

Problem Solving (World



7. Multi-Step Erin has only quarters. She has more than 75¢. Which amount could Erin have?

(A) \$0.50 (B) \$0.95 (C) \$1.15 \$1.25

a. What do you need to find?

the amount of money Erin has

b. What information will you use to solve the problem?

Erin has only quarters. She has more than 75¢

c. Show the steps you used to solve the problem.



Possible answer: first, I counted out three quarters to show 75¢. Then I continued to count on with quarters until I reached \$1.25. So, Erin has \$1.25.

d. Complete the sentences.

Erin has only quarters more than 75¢.

\$1.25 Erin has

e. Fill in the bubble for the correct answer choice above.

8. Multi-Step Charlie earned the bills and coins below at his lemonade stand.











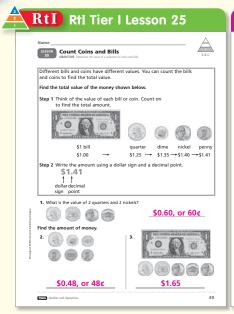
Does Charlie have enough money to buy more lemonade for \$8.00? How much money will he have left? Explain.

Yes, \$4.90: Possible explanation: Charlie earned \$12.90 which is more money than \$8.00.

From the \$12.90, subtract what he will spend for lemonade. \$12.90 - 8.00 = \$4.90

Module 4 • Lesson 6 133

Differentiated Instruction



Enrich 21 What's Missing in the Table? Follow each exercise's directions to fill in the empty boxes in the tables \$4.55 5 \$2.30 0 \$2.30 5 \$2.30 0 \$2.30 \$4.20



Daily Assessment Task

Fill in the bubble for the correct answer choice.

9. Representations Alejandro saved the money shown. How much did he save?







- (A) \$1.62
- \$3.87
- (B) \$2.76
- \$3.97
- 10. Multi-Step Kara has exactly enough money to buy the puzzle. She has one \$5 bill, two \$1 bills, and seven coins. What coins does she have?
 - (A) 3 dimes and 4 pennies
 - (B) 2 dimes, 1 nickel, and 4 pennies
 - 1 quarter, 2 nickels, and 4 pennies
 - D 1 quarter, 1 dime, 1 nickel, and 4 pennies





TEXAS Test Prep

11. What amount of money is shown below?











- (A) \$14.50
- © \$13.30
- \$14.10

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Differentiated Centers Kit





Money Mania

Students practice comparing money amounts.



Literature

The Penny Bank

Students read about subtraction and regrouping using pennies and dimes.

EVALUATE

Daily Assessment Task



Can students find an amount of money?





 Soar to Success Math Warm-Up 4.15

YES

- Enrich 21
- Homework and Practice Lesson 4.6



TEXAS Test Prep Coach

Test Prep Coach helps teachers to identify common errors that students can make.

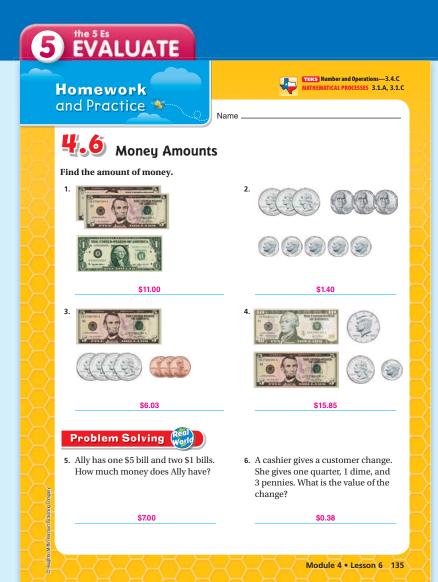
In the Test Prep exercise, if students selected:

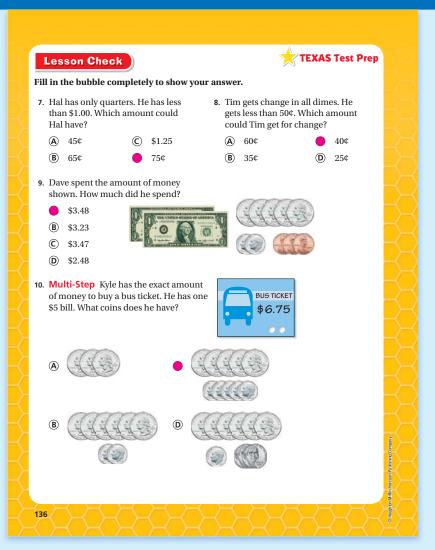
- A They added too many quarters.
- C or D They did not add and regroup the number of cents correctly to dollars.





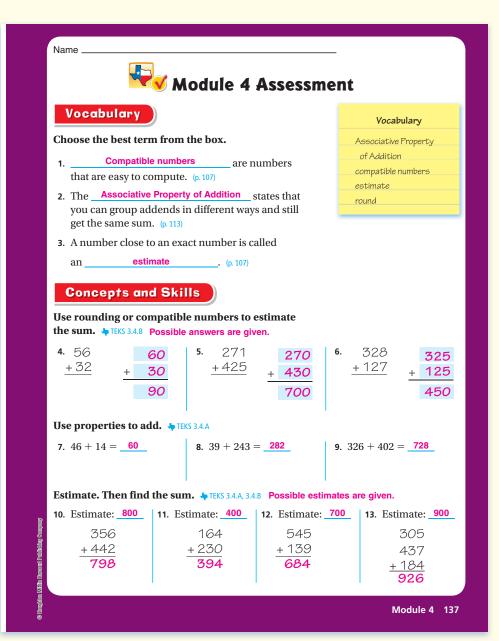
How can you find an amount of money with coins and bills? Possible answer: Find the number of each type of bill or coin. Then find the values of the like bills or coins. Finally add the values of each type of bill or coin.





Homework and Practice

Use the Homework and Practice pages to provide students with more practice on the concepts and skills of this lesson.



Formative Assessment

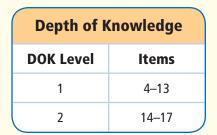
Use the Module Assessment to assess students' learning and progress. The formative assessment provides the opportunity to adjust teaching methods for individual or whole class instruction.

Data-Driven Decision Making

Based on the results of the Module 4 Assessment, use the following resources to strengthen individual or whole class instruction.

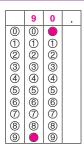
Item	Lesson	TEKS*	Common Error	Intervene With RtI* Tier 1 Lessons	Soar to Success Math
4–6	4.1, 4.2	3.4.B	May not look at the digit to the immediate right when rounding, or use a compatible number.	22, 23	15.15, 15.17 16.27
7–9	4.3	3.4.A	May not change order or grouping to find an easier way to add	16	10.42
10–13	4.4, 4.5	3.4.A, 3.4.B	May incorrectly use the break apart or place value strategies	17, 18	10.30, 10.41

^{*}TEKS—Texas Essential Knowledge and Skills; RtI—Response to Intervention



14. Nancy planted 48 roses and 39 tulips. Which is the best estimate for the number of flowers she planted? Record your answer and fill in the bubbles on the grid. Be sure to use

the correct place value. TEKS 3.4.B



TEXAS Test Prep

Fill in the bubble for the correct answer choice.

15. Jacob has some money in his bank. The money is shown below. How much money does he have in his bank?



- \$18.23
- \$19.28
- \$20.48
- \$19.46
- 16. There are 294 boys and 332 girls in the Hill School. How many students are in the school? ♣ TEKS 3.4.A
 - 526
- 626
- 637
- (**D**) 172
- 17. On Monday, 76 students played soccer. On Tuesday, 62 students played soccer. On Wednesday, 68 students played soccer. How many students played soccer on those three days? TEKS 3.4.A
 - 207
- 206
- (B) 196
- (D) 216

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V Data-Driven Decision Making 🔔 RtI



Item	Lesson	TEKS*	Common Error	Intervene With RtI* Tier 1 Lessons	Soar to Success Math
14	4.2	3.4.B	May not estimate numbers correctly	23	16.27
15	4.6	3.4.C	May not count coins and dollars correctly to find total amount	25	4.15
16	4.4	3.4.A	May incorrectly use break apart or place value strategies for adding	17	10.30
17	4.3	3.4.A	May change the order or grouping incorrectly	16	10.42

^{*}TEKS—Texas Essential Knowledge and Skills; RtI—Response to Intervention