

Grade 3 Unit 4

Lesson 12

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Unit 4 Lesson 12: Multiply Multiples of Ten

WU Notice and Wonder: Tens (Warm up)

Student Task Statement

What do you notice? What do you wonder?



1 A Whole Lot of Dollars

Student Task Statement

Six friends are playing a board game that uses play money. The paper bills come in \$5, \$10, \$20, \$50, and \$100.

- Every player received \$100 to start. Which of the following could be the bills that a player received?

Write an expression to represent the play bills and the amount in dollars.

bills	expression	dollar amount
one \$100 bill		
four \$20 bills		
ten \$10 bills		
ten \$5 bills		
five \$20 bills		
twenty \$10 bills		
twenty \$5 bills		

bills	expression	dollar amount
two \$50 bills		

2. At one point in the game, Noah had to pay Lin \$150. He gave her that amount using the same type of bill.
 - a. Which bill and how many of it could Noah have used to make \$150? Name all the possibilities.
 - b. Write an expression for each way that Noah could have paid Lin.
3. The table shows what the players had at the end of the game. The person with the most money wins. Who won the game?

Write an expression to represent the bills each person has and the amount in dollars.

player	bills	expression	dollar amount
Andre	nine \$10 bills and ten \$5 bills		
Clare	fourteen \$10 bills		
Jada	ten \$10 bills and three \$50 bills		
Lin	eight \$20 bills		
Noah	six \$50 bills		
Tyler	twenty-one \$10 bills		

2 Two Strategies

Student Task Statement

1. Two students used base-ten blocks to find the value of 8×30 .



- Jada counted: 30, 60, 90, 120, 150, 180, 210, 240, and said the answer is 240.
- Kiran said he knew 8×3 is 24, then found 24×10 to get 240.

How are Jada and Kiran's strategies alike? How are they different?

2. Find the value of each expression. Explain or show your reasoning.

a. 5×60

b. 8×50

c. 4×30

d. 7×40

e. 9×20