Name _____ Date _____ Period _____

Lesson 1-5

Reinforce Understanding

Math is Finding Patterns

I can find patterns and pattern rules, use them to make generalizations, and check my solutions with a table of values.

Worked model

A change jar is full of pennies, nickels, dimes, and quarters worth $53.50 in total. How many of each coin could there be?

1. Each penny has a value of $0.01, so 100 pennies have a value of $1.00.
2. Each nickel has a value of $0.05, so 100 nickels have a value of $5.00. Each dime has a value of $0.10, so 100 dimes have a value of $10. Each quarter has a value of $0.25, so 100 quarters have a value of $25.
3. I multiply the number of each coin by its value. And I notice a generalization: because the jar's total, $53.50, ends in 0, the number of pennies can only be a multiple of 5.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Each penny has a value of $0.01. What is the value of 100 pennies?

Circle the letter of the best answer. Show how you know.

A. $0.10
B. $1.00
C. $10.00
D. $100.00

Show your work

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2. Each quarter has a value of $0.25. Following the pattern, what is the value of 100 quarters?

Circle the letter of the best answer. Show how you know.

A. $2.50
B. $25.00
C. $100.25
D. $250.00

Show your work

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3. Player A scores a two-pointer on every shot. What is Player A's pattern rule?

Circle the letter of the best answer. Show how you know.

A. Add 2
B. Multiply by 2
C. Add 3
D. Add 18

Show your work
