## G4-N6-Lesson 15

## **Lesson Notes**

In Grade 4, students find the sum of money amounts by expressing the amounts in unit form, adding like units (i.e., dollars + dollars and cents + cents), and then writing the answer in decimal form with a dollar sign. Writing money amounts in unit form and fraction form builds a strong conceptual foundation for decimal notation. Students are introduced to adding decimal numbers in Grade 5.

$$4 = \frac{4}{100}$$
 dollar

$$80C = \frac{8}{10}$$
 dollar

$$500 = \frac{50}{100} \text{ dollar}$$

$$1 \text{ penny} = \frac{1}{100} \text{ dollar}$$
$$1 \text{ dime} = \frac{1}{10} \text{ dollar}$$

$$\lim_{n \to \infty} \frac{1}{10} \operatorname{dollar}$$

$$1 \; \text{quarter} = \frac{25}{100} \, \text{dollar}$$

Solve. Give the total amount of money in fraction and decimal form.

4. 7 dimes and 23 pennies

$$(7 \times 10\%) + (23 \times 1\%) = 70\% + 23\% = 93\%$$

$$93 C = \frac{93}{100} dollar$$

$$\frac{93}{100}$$
 dollar = \$0.93

93 cents is 93 hundredths of a dollar. Thinking of that value as a fraction helps me to write it as a decimal number.

5. 1 quarter 3 dimes and 6 pennies

$$(1 \times 25\%) + (3 \times 10\%) + (6 \times 1\%) = 25\% + 30\% + 6\% = 61\%$$

$$61C = \frac{61}{100} dollar$$

$$\frac{61}{100}$$
 dollar = \$0.61

6. 173 cents is what fraction of a dollar?

$$\frac{173}{100}$$
 dollars

I know that 1 cent =  $\frac{1}{100}$  dollar.

Solve. Express the answer in decimal form.

7. 2 dollars 3 dimes 24 pennies + 3 dollars 1 quarter 2 dollars 54 cents +3 dollars 25 cents =5 dollars 79 cents 5 dollars 79 cents =  $5\frac{79}{100}$  dollars = \$5.79

I rewrite each addend as dollars and cents. I add like units and then express the amount in decimal form.

8. 7 dollars 5 dimes 2 pennies + 1 dollar 3 quarters

7 dollars 52 cents + 1 dollar 75 cents = 8 dollars 127 cents = 9 dollars 27 cents

27 cents 1 dollar

9 dollars 27 cents =  $9\frac{27}{100}$  dollars = \$9.27

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