

Wednesday

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Unit 3, Lesson 10: What Are Percentages?

1. What percentage of a dollar is the value of each coin combination?

a. 4 dimes $4 \times 10 = 40$ so $\frac{40}{100} = 40\%$

b. 1 nickel and 3 pennies $.05 + .03 = .08$ $\frac{8}{100} = 8\%$

c. 5 quarters and 1 dime $5(.25) + .10 = \frac{1.35}{1.00} = 135\%$

1/3

2. a. List three different combinations of coins, each with a value of 30% of a dollar.

1 quarter + 1 nickel 3 dimes 6 nickels

b. List two different combinations of coins, each with a value of 140% of a dollar.

6 quarters + 1 dime + 1 nickel 140 pennies

1/2

3. The United States government used to make coins of many different values. For each coin, state its worth as a percentage of \$1.



a. $\frac{.5}{100}$ $\frac{1}{2}$ cent $.5\%$ $\frac{1}{2}\%$

b. $\frac{3}{100}$ 3 cents 3%

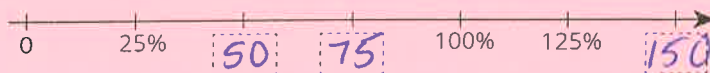
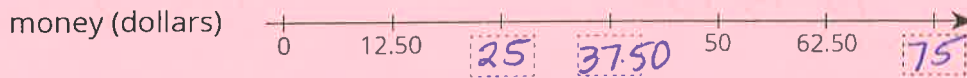
c. 20 cents $\frac{20}{100} = 20\%$

d. $2\frac{1}{2}$ $\frac{250}{100} = 250\%$

e. \$5 $\frac{500}{100} = 500\%$

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4. Complete the double number to line show percentages of \$50.



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5. Elena bought 8 tokens for \$4.40. At this rate:

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\$4.40 8 tokens

a. How many tokens could she buy with \$6.05?

$$\frac{\$4.40}{8} = \frac{\$0.55}{1 \text{ token}} \times 19 = 10.45$$

b. How much do 19 tokens cost?

$$\frac{\$4.40}{8} = \frac{\$1.81 \text{ token}}{\$1} \times 6.05 = 11 \text{ tokens}$$

\$10.45

\$	token
4.40	8
6.05	1

(from Unit 3, Lesson 9)

6. A snail travels 10 cm in 4 minutes. At this rate:

a. How long will it take the snail to travel 24 cm?

$$24 \times \frac{4 \text{ min}}{10 \text{ cm}} = 9.6 \text{ min}$$

b. How far does the snail travel in 6 minutes?

$$\frac{10 \text{ cm}}{4 \text{ min}} = \frac{2.5 \text{ cm}}{1 \text{ min}} \times 6 \text{ min} = 15 \text{ cm}$$

(from Unit 3, Lesson 8)

7. a. 3 tacos cost \$18. Complete the table to show the cost of 4, 5, and 6 tacos at the same rate.

b. If you buy t tacos for c dollars, what is the unit rate?

number of tacos	cost in dollars	rate in dollars per taco
3	18	\$6 per taco
4	24	\$6 per taco
5	30	\$6 per taco
6	36	\$6 per taco
t	$6t$ c	$\$ \frac{6t}{t} = \6

(from Unit 3, Lesson 7)

or $\frac{c}{t}$