



**Decide whether two quantities are in a proportional relationship, Practice Set A**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Mr. Jacobson loves buffalo wings. His favorite restaurant has three different sized orders. The number of wings and cost of each order is shown in the table below.

Number of Wings	12	20	25
Cost of Order	\$8.16	\$13.60	\$14.25

- a. The label for the unit rate will be \_\_\_\_\_ per \_\_\_\_\_.
- b. Calculate the unit rate for each order. Add this information to the table.
- c. Is there a proportional relationship between the number of wings and cost?

Explain why or why not. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. The same restaurant offers a small, medium, and large soda. The number of ounces and cost of each size is shown in the table below.

Ounces of Soda	12	15	20
Cost of Soda	\$1.68	\$2.10	\$2.80

- a. The label for the unit rate will be \_\_\_\_\_ per \_\_\_\_\_.
- b. Calculate the unit rate for each size. Add this information to the table.
- c. Is there a proportional relationship between the ounces of soda and cost? Explain why or why not. \_\_\_\_\_

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**Decide whether two quantities are in a proportional relationship, Practice Set A****Answer Key**

1. Mr. Jacobson loves buffalo wings. His favorite restaurant has three different sized orders. The number of wings and cost of each order is shown in the table below.

Number of Wings	12	20	25
Cost of Order	\$8.16	\$13.60	\$14.25
Cost per Wing	\$0.68	\$0.68	\$0.57

- The label for the unit rate will be **cost** per **wing**.
- Calculate the unit rate for each order. Add this information to the table.
- Is there a proportional relationship between the number of wings and cost?

Explain why or why not. **There is a proportional relationship between the number of wings and the cost for the 12 and 20 piece orders because they both have the same unit rate. The 25 piece order is not proportional because the unit rate is less. Overall, the table does not show a proportional relationship.**

2. The same restaurant offers a small, medium, and large soda. The number of ounces and cost of each size is shown in the table below.

Ounces of Soda	12	15	20
Cost of Soda	\$1.68	\$2.10	\$2.80
Cost per Ounce	\$0.14	\$0.14	\$0.14

- The label for the unit rate will be **cost** per **ounce**.
- Calculate the unit rate for each size. Add this information to the table.
- Is there a proportional relationship between the ounces of soda and cost? Explain



why or why not. There is a proportional relationship between the cost and ounces of soda because all of the sizes have the same unit rate which is \$0.14 per ounce.