

Decide whether two quantities are in a proportional relationship

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. Is there a proportional relationship between the number of wings and cost?
Explain why or why not.

b. Mr. Jacobson wants the “best deal” on wings. How many wings should he order?

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 | | \$2.80 |

The owner wants the soda to be priced fairly. How much should she charge for the 15 ounce soda? Show your work.