## 4.2c Homework: Proportions (unit rates) from Tables and Graphs

Label the axes and graph the information from the table. Use the table to determine if the relationship represented is proportional throughout the table. If it is proportional, state the proportional constant (unit rate) as a fraction or as a decimal.

**1.**

| Bananas (lbs) | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Price ($) | 0.40 | 0.80 | 1.20 | 1.60 | 2.00 | 2.40 |

Proportional? Yes or No?
If yes, what is the unit rate? (pick the most useful unit rate)
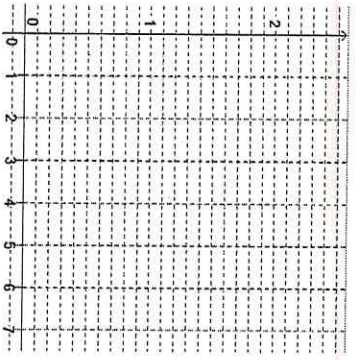


**2.**

| # Bagels | 1 | 2 | 6 | 13 | 19 | 26 |
|---|---|---|---|---|---|---|
| Price ($) | 0.75 | 1.50 | 4.50 | 9.00 | 13.50 | 18.00 |

Proportional? Yes or No?
If yes, what is the unit rate? (pick the most useful unit rate)
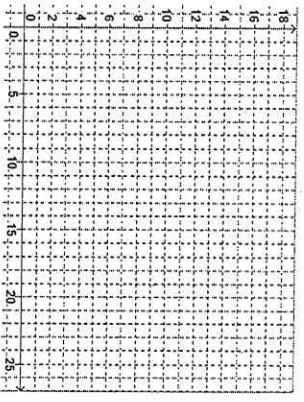


**3.**

| Eggs | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Cups of milk | $\frac{1}{2}$ | 1 | $\frac{13}{10}$ | $\frac{9}{5}$ | 2 | 3 |

Proportional? Yes or No?
If yes, what is the unit rate? (pick the most useful unit rate)
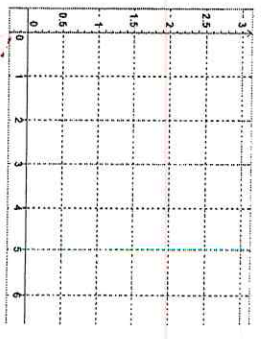


**4.**

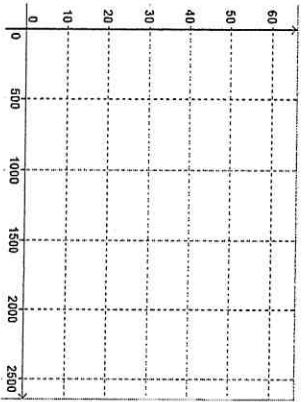| # of MP3s | 2 | 3 | 4 | 5 | 6 | 10 |
|---|---|---|---|---|---|---|
| Price ($) | 1.00 | 1.50 | 1.75 | 1.90 | 2.00 | 5.00 |

Proportional? Yes or No?
If yes, what is the unit rate? (pick the most useful unit rate)
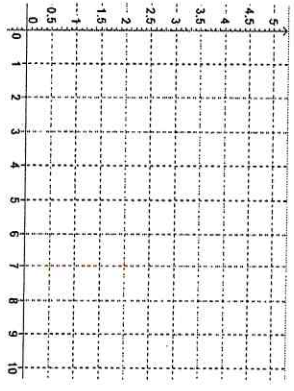


**5.**

| Minutes | 0 | 500 | 1000 | 1500 | 2000 | 2500 |
|---|---|---|---|---|---|---|
| Cell Phone Monthly Charge | $10 | $20 | $30 | $40 | $50 | $60 |

Proportional? Yes or No?
If yes, what is the unit rate? (pick the most useful unit rate)

## 4.2c Classwork: Proportions from Tables and Graphs

1. The following table shows the relationship between the amount of cherries (in pounds) and cost.

| Cost ($) | 1.50 | 3.00 | 4.50 | 6.00 | 7.50 |
|---|---|---|---|---|---|
| Amount (lbs.) | 1 | 2 | 3 | 4 | 5 |

a. Is this a proportional relationship? How do you know?

b.

c. Put the information from the table on the graph below, with amount of cherries on the x axis and cost on the y axis.
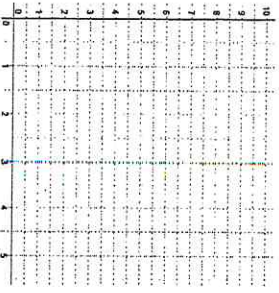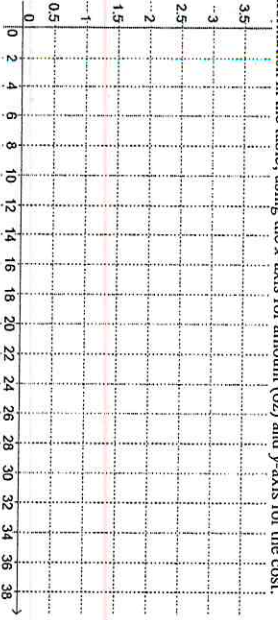


2. The following table shows the relationship between the number of ounces in soup cans and cost.

| Cost ($) | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 |
|---|---|---|---|---|---|
| Amount (oz) | 8 | 16 | 24 | 30 | 36 |

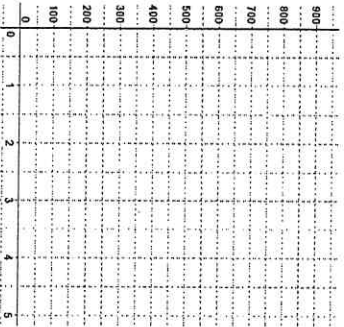a. Is this a proportional relationship? How do you know?

b. Graph the information in the table, using the x-axis for amount (oz) and y-axis for the cost.

3. The following table shows the pounds of meat on a sandwich and the calories in the sandwich.

| Calories | 560 | 650 | 740 | 830 | 920 |
|---|---|---|---|---|---|
| Meat (lbs) | 0.5 | 1 | 1.5 | 2 | 2.5 |

a. Is this a proportional relationship? How do you know?

b. Graph the information from the table. Use meat (lbs) on the x-axis.



Do you have a conjecture about how to determine if a table of values represents a proportional relationship?

Do you have a conjecture about how to determine if a graph of values represents a proportional relationship?