

Homework Wednesday and Thursday: Equations of Proportional Relationships

1. Milo and Sera each bought chocolate cinnamon bears from different candy stores. Milo paid \$3.00 for 2 pounds and Sera paid \$5.25 for 3 pounds.

a. Complete the table.

| Milo | |
|--------|------|
| Pounds | Cost |
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |

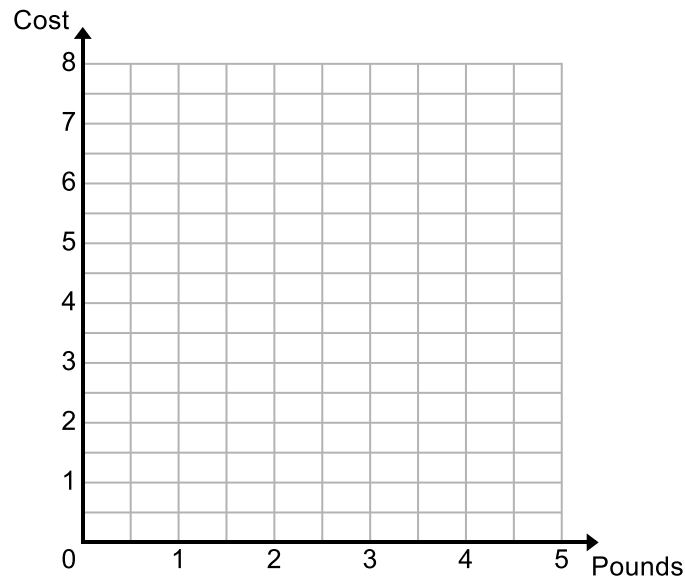
| Sera | |
|--------|------|
| Pounds | Cost |
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |

b. Find the unit rate for each girl. Be sure to include labels.

Milo:

Sera:

- c. Graph the cost of each girl's bears in a different color on the same coordinate plane. Think about how you can quickly graph these lines by choosing two easy points to graph.



- d. Write an equation that relates the cost y to the pounds purchased x for each girl.

Milo: _____

Sera: _____

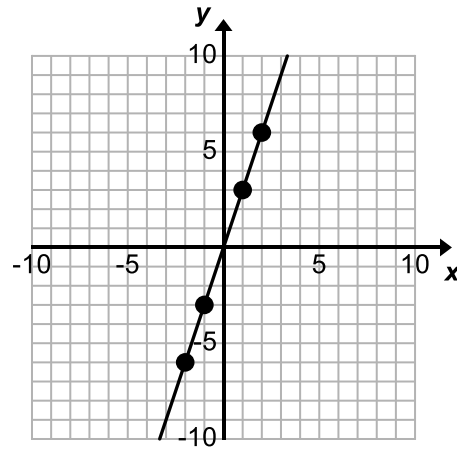
- e. Who got the best deal on cinnamon bears? How do each of the representations show who got the better deal?

a.

| x | y |
|-----|-----|
| 1 | 10 |
| 2 | 20 |
| 3 | 30 |

Equation:

a.



Equation:

a. $(1\frac{1}{4}, 1)$

Equation:

Unit Rate Ordered Pair:

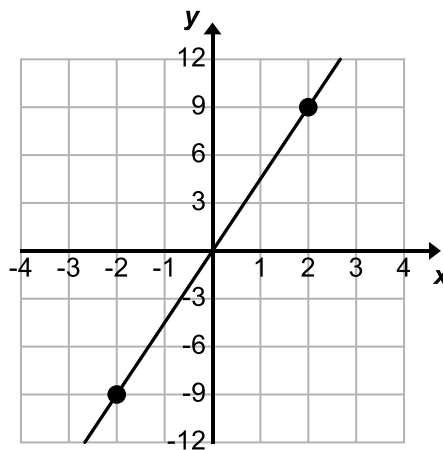
Constant of Proportionality:

b.

| x | y |
|-----|-----|
| 3 | 2 |
| 6 | 4 |
| 9 | 6 |

Equation:

b.



Equation:

b. $(3.5, 14)$

Equation:

Unit Rate Ordered Pair:

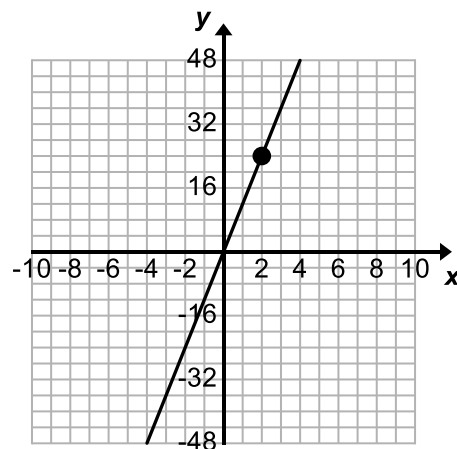
Constant of Proportionality:

c.

| x | y |
|----------------|-----|
| $\frac{3}{4}$ | 18 |
| $1\frac{1}{2}$ | 36 |

Equation:

c.



Equation:

c. $(12, 8)$

Equation:

Unit Rate Ordered Pair:

Constant of Proportionality: