Identifying Constant of Proportionality (Tables)   Name:

Determine the constant of proportionality for each table. Express your answer as y = kx

Ex)

Glasses of Lemonade (x)	5	4	3	10	9
Lemons Used (y)	25	20	15	50	45

For every glass of lemonade there were ___5___ lemons used.

Ex.   **y = 5x**

1)

Time in minute (x)	6	8	2	10	4
Distance traveled in meters (y)	144	192	48	240	96

Every minute _____ meters are travelled.

1. _____

2. _____

2)

Pounds of Beef Jerky (x)	6	2	5	4	3
Price in dollars (y)	78	26	65	52	39

For every pound of beef jerky it cost _____ dollars.

3. _____

3)

Phone Sold (x)	7	10	8	5	4
Money Earned (y)	336	480	384	240	192

Every phone sold earns _____ dollars.

4. _____

5. _____

6. _____

4)

Boxes of Candy (x)	10	6	8	5	9
Pieces of Candy (y)	190	114	152	95	171

For every box of candy you get _____ pieces.

7. _____

8. _____

5)

Tickets Sold (x)	3	7	10	4	8
Money Earned (y)	33	77	110	44	88

Every ticket sold _____ dollars are earned.

6)

Pieces of Chicken (x)	9	8	7	3	4
Price in dollars (y)	9	8	7	3	4

For each piece of chicken it costs _____ dollars.

7)

Time in minute (x)	5	2	10	7	3
Gallons of Water Used (y)	90	36	180	126	54

Every minute _____ gallons of water are used.

8)

Chocolate Bars (x)	4	10	9	5	7
Calories (y)	992	2,480	2,232	1,240	1,736

Every chocolate bar has _____ calories.

Math

Identifying Constant of Proportionality (Tables)

Name: **Answer Key**

Determine the constant of proportionality for each table. Express your answer as y = kx

Ex)

Glasses of Lemonade (x)	5	4	3	10	9
Lemons Used (y)	25	20	15	50	45

For every glass of lemonade there were __5__ lemons used.

Ex. **y = 5x**

1)

Time in minute (x)	6	8	2	10	4
Distance traveled in meters (y)	144	192	48	240	96

Every minute __24__ meters are travelled.

1. **y = 24x**

2)

Pounds of Beef Jerky (x)	6	2	5	4	3
Price in dollars (y)	78	26	65	52	39

For every pound of beef jerky it cost __13__ dollars.

2. **y = 13x**

3)

Phone Sold (x)	7	10	8	5	4
Money Earned (y)	336	480	384	240	192

Every phone sold earns __48__ dollars.

3. **y = 48x**

4)

Boxes of Candy (x)	10	6	8	5	9
Pieces of Candy (y)	190	114	152	95	171

For every box of candy you get __19__ pieces.

4. **y = 19x**

5)

Tickets Sold (x)	3	7	10	4	8
Money Earned (y)	33	77	110	44	88

Every ticket sold __11__ dollars are earned.

5. **y = 11x**

6)

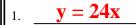| Pieces of Chicken (x)	9	8	7	3	4
Price in dollars (y)	9	8	7	3	4

For each piece of chicken it costs __1__ dollars.

6. **y = 1x**

7)

Time in minute (x)	5	2	10	7	3
Gallons of Water Used (y)	90	36	180	126	54

Every minute __18__ gallons of water are used.

7. **y = 18x**

8)

Chocolate Bars (x)	4	10	9	5	7
Calories (y)	992	2,480	2,232	1,240	1,736

Every chocolate bar has __248__ calories.

8. **y = 248x**