Identifying Constant of Proportionality (Tables)   Name:

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

Ex)

Pieces of Chicken (x)	7	6	10	4	8
Price in dollars (y)	7	6	10	4	8

For each piece of chicken it costs ___1___ dollars.

Ex. **y = 1x**

1)

Pounds of Beef Jerky (x)	10	2	6	8	4
Price in dollars (y)	100	20	60	80	40

For every pound of beef jerky it cost _____ dollars.

1. _____

2. _____

2)

Glasses of Lemonade (x)	3	10	7	9	5
Lemons Used (y)	12	40	28	36	20

For every glass of lemonade there were _____ lemons used.

3. _____

4. _____

3)

Boxes of Candy (x)	8	7	10	6	4
Pieces of Candy (y)	160	140	200	120	80

For every box of candy you get _____ pieces.

5. _____

6. _____

4)

Time in minute (x)	6	2	5	7	4
Distance traveled in meters (y)	126	42	105	147	84

Every minute _____ meters are travelled.

7. _____

8. _____

5)

Concrete Blocks (x)	7	9	5	10	4
weight in kilograms (y)	70	90	50	100	40

Every concrete block weighs _____ kilograms.

6)

Time in minute (x)	4	7	6	2	9
Gallons of Water Used (y)	168	294	252	84	378

Every minute _____ gallons of water are used.

7)

Tickets Sold (x)	4	3	5	8	9
Money Earned (y)	40	30	50	80	90

Every ticket sold _____ dollars are earned.

8)

Enemies Destroyed (x)	10	6	9	2	5
Points Earned (y)	200	120	180	40	100

Every enemy destroyed earns _____ points.

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

Ex)

Pieces of Chicken (x)	7	6	10	4	8
Price in dollars (y)	7	6	10	4	8

For each piece of chicken it costs ___1___ dollars.

Ex. _____ $y = 1x$

1)

Pounds of Beef Jerky (x)	10	2	6	8	4
Price in dollars (y)	100	20	60	80	40

For every pound of beef jerky it cost ___10___ dollars.

1. _____ $y = 10x$

2. _____ $y = 4x$

2)

Glasses of Lemonade (x)	3	10	7	9	5
Lemons Used (y)	12	40	28	36	20

For every glass of lemonade there were ___4___ lemons used.

3. _____ $y = 20x$

4. _____ $y = 21x$

3)

Boxes of Candy (x)	8	7	10	6	4
Pieces of Candy (y)	160	140	200	120	80

For every box of candy you get ___20___ pieces.

5. _____ $y = 10x$

6. _____ $y = 42x$

4)

Time in minute (x)	6	2	5	7	4
Distance traveled in meters (y)	126	42	105	147	84

Every minute ___21___ meters are travelled.

7. _____ $y = 10x$

8. _____ $y = 20x$

5)

Concrete Blocks (x)	7	9	5	10	4
weight in kilograms (y)	70	90	50	100	40

Every concrete block weighs ___10___ kilograms.

6)

Time in minute (x)	4	7	6	2	9
Gallons of Water Used (y)	168	294	252	84	378

Every minute ___42___ gallons of water are used.

7)

Tickets Sold (x)	4	3	5	8	9
Money Earned (y)	40	30	50	80	90

Every ticket sold ___10___ dollars are earned.

8)

Enemies Destroyed (x)	10	6	9	2	5
Points Earned (y)	200	120	180	40	100

Every enemy destroyed earns ___20___ points.

Math