Identifying Constant of Proportionality (Tables)   Name: _____

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

Ex)

Cans of Paint (x)	9	6	3	4	10
Bird Houses Painted (y)	36	24	12	16	40

For every can of paint you could paint ___4___ bird houses.

Ex. ___**y = 4x**___

1)

Tickets Sold (x)	10	4	8	9	3
Money Earned (y)	120	48	96	108	36

Every ticket sold _____ dollars are earned.

1. _____

2. _____

2)

Concrete Blocks (x)	3	8	7	4	9
weight in kilograms (y)	27	72	63	36	81

Every concrete block weighs _____ kilograms.

3. _____

4. _____

3)

Pieces of Chicken (x)	10	9	6	3	7
Price in dollars (y)	20	18	12	6	14

For each piece of chicken it costs _____ dollars.

5. _____

6. _____

4)

Phone Sold (x)	7	4	3	9	10
Money Earned (y)	266	152	114	342	380

Every phone sold earns _____ dollars.

7. _____

8. _____

5)

Time in minute (x)	6	7	9	4	3
Gallons of Water Used (y)	270	315	405	180	135

Every minute _____ gallons of water are used.

6)

Votes for Bianca (x)	9	8	7	4	5
Votes for Tom (y)	135	120	105	60	75

For Every vote for Bianca there were _____ votes for Tom.

7)

Enemies Destroyed (x)	3	8	6	5	4
Points Earned (y)	126	336	252	210	168

Every enemy destroyed earns _____ points.

8)

Pounds of Beef Jerky (x)	10	9	6	8	7
Price in dollars (y)	160	144	96	128	112

For every pound of beef jerky it cost _____ dollars.

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

Ex)

Cans of Paint (x)	9	6	3	4	10
Bird Houses Painted (y)	36	24	12	16	40

For every can of paint you could paint ___4___ bird houses.

Ex. ___**y = 4x**___

1)

Tickets Sold (x)	10	4	8	9	3
Money Earned (y)	120	48	96	108	36

Every ticket sold ___12___ dollars are earned.

1. ___**y = 12x**___

2)

Concrete Blocks (x)	3	8	7	4	9
weight in kilograms (y)	27	72	63	36	81

Every concrete block weighs ___9___ kilograms.

2. ___**y = 9x**___

3. ___**y = 2x**___

3)

Pieces of Chicken (x)	10	9	6	3	7
Price in dollars (y)	20	18	12	6	14

For each piece of chicken it costs ___2___ dollars.

4. ___**y = 38x**___

4)

Phone Sold (x)	7	4	3	9	10
Money Earned (y)	266	152	114	342	380

Every phone sold earns ___38___ dollars.

5. ___**y = 45x**___

5)

Time in minute (x)	6	7	9	4	3
Gallons of Water Used (y)	270	315	405	180	135

Every minute ___45___ gallons of water are used.

6. ___**y = 15x**___

6)

Votes for Bianca (x)	9	8	7	4	5
Votes for Tom (y)	135	120	105	60	75

For Every vote for Bianca there were ___15___ votes for Tom.

7. ___**y = 42x**___

7)

Enemies Destroyed (x)	3	8	6	5	4
Points Earned (y)	126	336	252	210	168

Every enemy destroyed earns ___42___ points.

8. ___**y = 16x**___

8)

Pounds of Beef Jerky (x)	10	9	6	8	7
Price in dollars (y)	160	144	96	128	112

For every pound of beef jerky it cost ___16___ dollars.