Identifying Constant of Proportionality (Tables)　　Name:

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

Ex)

Concrete Blocks (x)	6	5	7	9	3
weight in kilograms (y)	54	45	63	81	27

Every concrete block weighs ___9___ kilograms.

Ex. ___**y = 9x**___

1)

Time in minute (x)	7	8	6	4	2
Gallons of Water Used (y)	315	360	270	180	90

Every minute _____ gallons of water are used.

1. _____

2. _____

2)

Chocolate Bars (x)	6	7	3	4	10
Calories (y)	1,530	1,785	765	1,020	2,550

Every chocolate bar has _____ calories.

3. _____

4. _____

3)

Pounds of Beef Jerky (x)	6	7	9	2	5
Price in dollars (y)	84	98	126	28	70

For every pound of beef jerky it cost _____ dollars.

5. _____

6. _____

4)

Pieces of Chicken (x)	3	6	9	5	10
Price in dollars (y)	6	12	18	10	20

For each piece of chicken it costs _____ dollars.

7. _____

8. _____

5)

Boxes of Candy (x)	10	3	4	5	2
Pieces of Candy (y)	160	48	64	80	32

For every box of candy you get _____ pieces.

6)

Votes for Robin (x)	8	10	7	2	9
Votes for Edward (y)	312	390	273	78	351

For Every vote for Robin there were _____ votes for Edward.

7)

Lawns Mowed (x)	4	10	9	6	5
Dollars Earned (y)	144	360	324	216	180

For every lawn mowed _____ dollars were earned.

8)

Cans of Paint (x)	7	8	9	2	10
Bird Houses Painted (y)	28	32	36	8	40

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

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

Ex)

Concrete Blocks (x)	6	5	7	9	3
weight in kilograms (y)	54	45	63	81	27

Every concrete block weighs ___9___ kilograms.

Ex. $y = 9x$

1)

Time in minute (x)	7	8	6	4	2
Gallons of Water Used (y)	315	360	270	180	90

Every minute ___45___ gallons of water are used.

1. $y = 45x$

2)

Chocolate Bars (x)	6	7	3	4	10
Calories (y)	1,530	1,785	765	1,020	2,550

Every chocolate bar has ___255___ calories.

2. $y = 255x$

3)

Pounds of Beef Jerky (x)	6	7	9	2	5
Price in dollars (y)	84	98	126	28	70

For every pound of beef jerky it cost ___14___ dollars.

3. $y = 14x$

4)

Pieces of Chicken (x)	3	6	9	5	10
Price in dollars (y)	6	12	18	10	20

For each piece of chicken it costs ___2___ dollars.

4. $y = 2x$

5)

Boxes of Candy (x)	10	3	4	5	2
Pieces of Candy (y)	160	48	64	80	32

For every box of candy you get ___16___ pieces.

5. $y = 16x$

6)

Votes for Robin (x)	8	10	7	2	9
Votes for Edward (y)	312	390	273	78	351

For Every vote for Robin there were ___39___ votes for Edward.

6. $y = 39x$

7)

Lawns Mowed (x)	4	10	9	6	5
Dollars Earned (y)	144	360	324	216	180

For every lawn mowed ___36___ dollars were earned.

7. $y = 36x$

8)

Cans of Paint (x)	7	8	9	2	10
Bird Houses Painted (y)	28	32	36	8	40

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

8. $y = 4x$