(7.4)

Name: _____ Date: **Key**

IDENTIFYING THE CONSTANT OF PROPORTIONALITY FROM TABLES.

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

Example: Each box weights __10__ kilograms, in other words, it's __10__ kilograms per box.   **Answer**

Number of boxes (x)	3	5	7	9	11
Weight in kilograms (y)	30	50	70	90	110

Ex. y = 10x

1. Each pound of beef costs __12__ dollars, in other words, it's __12__ dollars per pound of beef.

Pounds of Beef (x)	5	6	7	8	9
Price in Dollars (y)	60	72	84	96	108

1. y = **12x**

2. Every minute __13__ meters are travelled, in other words, it's __13__ meters per minute.

Time in Minutes (x)	3	6	9	12	15
Distance in Meters (y)	39	78	117	156	195

2. y = **13x**

3. For every lawn mowed __43__ dollars were earned, in other words, it's __43__ dollars per lawn mowed.

Lawns Mowed (x)	2	4	6	8	10
Dollars Earned (y)	86	172	258	344	430

3. y = **43x**

4. Each piece of chicken costs __2__ dollars, in other words, it's __2__ dollars per piece of chicken.

Pieces of Chicken (x)	4	8	12	16	18
Price in Dollars (y)	8	16	24	32	36

4. y = **2x**

5. For every box of candy, you get __16__ pieces, in other words, you get __16__ pieces per box of candy.

Boxes of Candy (x)	2	5	8	11	14
Pieces of Candy (y)	32	80	128	176	224

5. y = **16x**

6. Every chocolate bar has __202__ calories, in other words, it's __202__ calories per chocolate bar.

Chocolate Bars (x)	2	4	6	8	10
Calories (y)	404	808	1212	1616	2020

6. y = **202x**

7. For every vote for Donald, there were __38__ votes for Hillary.

Votes for Candidate 1 (x)	1	2	3	4	5
Votes for Candidate 2 (y)	38	76	114	152	190

7. y = **38x**

8. For every can of paint, you could paint __3__ bird houses, in other words, you can paint __3__ houses per can.

Cans of Paint (x)	1	3	5	7	9
Bird Houses Painted (y)	3	9	15	21	27

8. y = **3x**

HIT THE STANDARDS