

7.4

Name: _____

Date: _____

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 _____ dollars, in other words, it's _____ dollars per pound of beef.

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

1. $y =$

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

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

2. $y =$

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

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

3. $y =$

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

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

4. $y =$

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

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

5. $y =$

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

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

6. $y =$

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

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

7. $y =$

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

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

8. $y =$