Identifying Constant of Proportionality (Tables)   Name:

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

Ex)

Boxes of Candy (x)	4	2	7	6	5
Pieces of Candy (y)	72	36	126	108	90

For every box of candy you get <u>18</u> pieces.

Ex. **y = 18x**

1. _____

1)

Glasses of Lemonade (x)	3	10	4	5	6
Lemons Used (y)	9	30	12	15	18

For every glass of lemonade there were _ lemons used.

2. _____

2)

Phone Sold (x)	2	6	3	8	9
Money Earned (y)	90	270	135	360	405

Every phone sold earns __ dollars.

3. _____

4. _____

3)

Cans of Paint (x)	3	8	2	4	9
Bird Houses Painted (y)	12	32	8	16	36

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

5. _____

6. _____

4)

Time in minute (x)	4	10	2	8	6
Gallons of Water Used (y)	132	330	66	264	198

Every minute __ gallons of water are used.

7. _____

5)

Lawns Mowed (x)	10	2	6	9	8
Dollars Earned (y)	410	82	246	369	328

For every lawn mowed __ dollars were earned.

8. _____

6)

Pounds of Beef Jerky (x)	4	6	3	7	8
Price in dollars (y)	40	60	30	70	80

For every pound of beef jerky it cost __ dollars.

7)

Time in minute (x)	7	5	2	4	3
Distance traveled in meters (y)	91	65	26	52	39

Every minute __ meters are travelled.

8)

Votes for Debby (x)	4	6	3	2	9
Votes for Dave (y)	72	108	54	36	162

For Every vote for Debby there were __ votes for Dave.

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

Ex)

Boxes of Candy (x)	4	2	7	6	5
Pieces of Candy (y)	72	36	126	108	90

For every box of candy you get 18 pieces.

Ex.   **y = 18x**

1)

Glasses of Lemonade (x)	3	10	4	5	6
Lemons Used (y)	9	30	12	15	18

For every glass of lemonade there were 3 lemons used.

1.   **y = 3x**

2)

Phone Sold (x)	2	6	3	8	9
Money Earned (y)	90	270	135	360	405

Every phone sold earns 45 dollars.

2.   **y = 45x**

3)

Cans of Paint (x)	3	8	2	4	9
Bird Houses Painted (y)	12	32	8	16	36

For every can of paint you could paint 4 bird houses.

3.   **y = 4x**

4)

Time in minute (x)	4	10	2	8	6
Gallons of Water Used (y)	132	330	66	264	198

Every minute 33 gallons of water are used.

4.   **y = 33x**

5)

Lawns Mowed (x)	10	2	6	9	8
Dollars Earned (y)	410	82	246	369	328

For every lawn mowed 41 dollars were earned.

5.   **y = 41x**

6)

Pounds of Beef Jerky (x)	4	6	3	7	8
Price in dollars (y)	40	60	30	70	80

For every pound of beef jerky it cost 10 dollars.

6.   **y = 10x**

7)

Time in minute (x)	7	5	2	4	3
Distance traveled in meters (y)	91	65	26	52	39

Every minute 13 meters are travelled.

7.   **y = 13x**

8)

Votes for Debby (x)	4	6	3	2	9
Votes for Dave (y)	72	108	54	36	162

For Every vote for Debby there were 18 votes for Dave.

8.   **y = 18x**