Identifying Constant of Proportionality (Tables)

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

Ex)

Pieces of Chicken (x)	9	7	5	8	10
Price in dollars (y)	9	7	5	8	10

For each piece of chicken it costs ___1___ dollars.

Ex. ____$y = 1x$____

1)

Time in minute (x)	10	4	5	9	8
Gallons of Water Used (y)	300	120	150	270	240

Every minute _____ gallons of water are used.

1. _____

2. _____

2)

Time in minute (x)	5	6	10	4	3
Distance traveled in meters (y)	125	150	250	100	75

Every minute _____ meters are travelled.

3. _____

4. _____

3)

Concrete Blocks (x)	10	8	5	3	7
weight in kilograms (y)	100	80	50	30	70

Every concrete block weighs _____ kilograms.

5. _____

6. _____

4)

Boxes of Candy (x)	10	9	6	3	7
Pieces of Candy (y)	190	171	114	57	133

For every box of candy you get _____ pieces.

7. _____

8. _____

5)

Glasses of Lemonade (x)	8	3	6	4	2
Lemons Used (y)	24	9	18	12	6

For every glass of lemonade there were _____ lemons used.

6)

Enemies Destroyed (x)	3	7	8	9	6
Points Earned (y)	93	217	248	279	186

Every enemy destroyed earns _____ points.

7)

Pounds of Beef Jerky (x)	2	5	3	9	7
Price in dollars (y)	22	55	33	99	77

For every pound of beef jerky it cost _____ dollars.

8)

Phone Sold (x)	3	4	10	7	5
Money Earned (y)	138	184	460	322	230

Every phone sold earns _____ dollars.

Identifying Constant of Proportionality (Tables)

Name:

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

Answers

Ex)

Pieces of Chicken (x)	9	7	5	8	10
Price in dollars (y)	9	7	5	8	10

For each piece of chicken it costs ___1___ dollars.

Ex. ___**y = 1x**___

1)

Time in minute (x)	10	4	5	9	8
Gallons of Water Used (y)	300	120	150	270	240

Every minute ___30___ gallons of water are used.

1. ___**y = 30x**___

2)

Time in minute (x)	5	6	10	4	3
Distance traveled in meters (y)	125	150	250	100	75

Every minute ___25___ meters are travelled.

2. ___**y = 25x**___

3. ___**y = 10x**___

3)

Concrete Blocks (x)	10	8	5	3	7
weight in kilograms (y)	100	80	50	30	70

Every concrete block weighs ___10___ kilograms.

4. ___**y = 19x**___

5. ___**y = 3x**___

4)

Boxes of Candy (x)	10	9	6	3	7
Pieces of Candy (y)	190	171	114	57	133

For every box of candy you get ___19___ pieces.

6. ___**y = 31x**___

7. ___**y = 11x**___

5)

Glasses of Lemonade (x)	8	3	6	4	2
Lemons Used (y)	24	9	18	12	6

For every glass of lemonade there were ___3___ lemons used.

8. ___**y = 46x**___

6)

Enemies Destroyed (x)	3	7	8	9	6
Points Earned (y)	93	217	248	279	186

Every enemy destroyed earns ___31___ points.

7)

Pounds of Beef Jerky (x)	2	5	3	9	7
Price in dollars (y)	22	55	33	99	77

For every pound of beef jerky it cost ___11___ dollars.

8)

Phone Sold (x)	3	4	10	7	5
Money Earned (y)	138	184	460	322	230

Every phone sold earns ___46___ dollars.

Math