Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Concrete Blocks (x)	3	10	4	9	2
weight in kilograms (y)	18	60	24	54	12

Every concrete block weighs 6 kilograms.

1)

Phone Sold (x)	7	10	9	5	8
Money Earned (y)	224	320	288	160	256

Every phone sold earns _____ dollars.

2)

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

For each piece of chicken it costs _____ dollars.

3)

Cans of Paint (x)	9	4	7	3	8
Bird Houses Painted (y)	36	16	28	12	32

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

4)

Pounds of Beef Jerky (x)	6	10	4	8	7
Price in dollars (y)	66	110	44	88	77

For every pound of beef jerky it cost _____ dollars.

5)

Tickets Sold (x)	5	8	6	4	10
Money Earned (y)	60	96	72	48	120

Every ticket sold _____ dollars are earned.

6)

Lawns Mowed (x)	2	3	7	9	4
Dollars Earned (y)	64	96	224	288	128

For every lawn mowed _____ dollars were earned.

7)

Time in minute (x)	8	5	10	6	2
Distance traveled in meters (y)	160	100	200	120	40

Every minute _____ meters are travelled.

8)

Time in minute (x)	6	3	2	4	8
Gallons of Water Used (y)	246	123	82	164	328

Every minute _____ gallons of water are used.

Answers

Ex. y = 6x

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Identifying Constant of Proportionality (Tables)

Name: **Answer Key**

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

Ex)

Concrete Blocks (x)	3	10	4	9	2
weight in kilograms (y)	18	60	24	54	12

Every concrete block weighs 6 kilograms.

1)

Phone Sold (x)	7	10	9	5	8
Money Earned (y)	224	320	288	160	256

Every phone sold earns 32 dollars.

2)

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

For each piece of chicken it costs 1 dollars.

3)

Cans of Paint (x)	9	4	7	3	8
Bird Houses Painted (y)	36	16	28	12	32

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

4)

Pounds of Beef Jerky (x)	6	10	4	8	7
Price in dollars (y)	66	110	44	88	77

For every pound of beef jerky it cost 11 dollars.

5)

Tickets Sold (x)	5	8	6	4	10
Money Earned (y)	60	96	72	48	120

Every ticket sold 12 dollars are earned.

6)

Lawns Mowed (x)	2	3	7	9	4
Dollars Earned (y)	64	96	224	288	128

For every lawn mowed 32 dollars were earned.

7)

Time in minute (x)	8	5	10	6	2
Distance traveled in meters (y)	160	100	200	120	40

Every minute 20 meters are travelled.

8)

Time in minute (x)	6	3	2	4	8
Gallons of Water Used (y)	246	123	82	164	328

Every minute 41 gallons of water are used.

Answers

Ex. y = 6x

1. y = 32x
2. y = 1x
3. y = 4x
4. y = 11x
5. y = 12x
6. y = 32x
7. y = 20x
8. y = 41x