Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Time in minute (x)	2	9	6	3	4
Gallons of Water Used (y)	78	351	234	117	156

Every minute 39 gallons of water are used.

1)

Boxes of Candy (x)	5	8	4	3	9
Pieces of Candy (y)	100	160	80	60	180

For every box of candy you get _____ pieces.

2)

Votes for Lana (x)	3	9	6	8	2
Votes for Roger (y)	60	180	120	160	40

For Every vote for Lana there were _____ votes for Roger.

3)

Tickets Sold (x)	4	7	8	10	3
Money Earned (y)	40	70	80	100	30

Every ticket sold _____ dollars are earned.

4)

Time in minute (x)	3	7	4	9	10
Distance traveled in meters (y)	90	210	120	270	300

Every minute _____ meters are travelled.

5)

Pieces of Chicken (x)	7	3	4	5	9
Price in dollars (y)	14	6	8	10	18

For each piece of chicken it costs _____ dollars.

6)

Concrete Blocks (x)	5	10	6	8	4
weight in kilograms (y)	40	80	48	64	32

Every concrete block weighs _____ kilograms.

7)

Phone Sold (x)	3	8	5	10	6
Money Earned (y)	87	232	145	290	174

Every phone sold earns _____ dollars.

8)

Enemies Destroyed (x)	10	2	5	8	6
Points Earned (y)	490	98	245	392	294

Every enemy destroyed earns _____ points.

Answers

Ex. y = 39x

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

1-8	88	75	63	50	38	25	13	0

Identifying Constant of Proportionality (Tables) Name: **Answer Key**

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

Ex)

Time in minute (x)	2	9	6	3	4
Gallons of Water Used (y)	78	351	234	117	156

Every minute 39 gallons of water are used.

1)

Boxes of Candy (x)	5	8	4	3	9
Pieces of Candy (y)	100	160	80	60	180

For every box of candy you get 20 pieces.

2)

Votes for Lana (x)	3	9	6	8	2
Votes for Roger (y)	60	180	120	160	40

For Every vote for Lana there were 20 votes for Roger.

3)

Tickets Sold (x)	4	7	8	10	3
Money Earned (y)	40	70	80	100	30

Every ticket sold 10 dollars are earned.

4)

Time in minute (x)	3	7	4	9	10
Distance traveled in meters (y)	90	210	120	270	300

Every minute 30 meters are travelled.

5)

Pieces of Chicken (x)	7	3	4	5	9
Price in dollars (y)	14	6	8	10	18

For each piece of chicken it costs 2 dollars.

6)

Concrete Blocks (x)	5	10	6	8	4
weight in kilograms (y)	40	80	48	64	32

Every concrete block weighs 8 kilograms.

7)

Phone Sold (x)	3	8	5	10	6
Money Earned (y)	87	232	145	290	174

Every phone sold earns 29 dollars.

8)

Enemies Destroyed (x)	10	2	5	8	6
Points Earned (y)	490	98	245	392	294

Every enemy destroyed earns 49 points.

Answers

Ex. y = 39x

1. y = 20x
2. y = 20x
3. y = 10x
4. y = 30x
5. y = 2x
6. y = 8x
7. y = 29x
8. y = 49x

1-8	88	75	63	50	38	25	13	0