Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Enemies Destroyed (x)	6	3	8	10	2
Points Earned (y)	222	111	296	370	74

Every enemy destroyed earns ___37___ points.

1)

Glasses of Lemonade (x)	2	4	8	5	10
Lemons Used (y)	6	12	24	15	30

For every glass of lemonade there were _____ lemons used.

2)

Lawns Mowed (x)	6	4	7	5	10
Dollars Earned (y)	228	152	266	190	380

For every lawn mowed _____ dollars were earned.

3)

Tickets Sold (x)	2	8	6	10	3
Money Earned (y)	20	80	60	100	30

Every ticket sold _____ dollars are earned.

4)

Boxes of Candy (x)	2	6	9	4	10
Pieces of Candy (y)	38	114	171	76	190

For every box of candy you get _____ pieces.

5)

Time in minute (x)	2	8	9	3	10
Gallons of Water Used (y)	58	232	261	87	290

Every minute _____ gallons of water are used.

6)

Phone Sold (x)	4	5	3	7	6
Money Earned (y)	200	250	150	350	300

Every phone sold earns _____ dollars.

7)

Votes for Amy (x)	10	2	8	5	9
Votes for Will (y)	200	40	160	100	180

For Every vote for Amy there were _____ votes for Will.

8)

Concrete Blocks (x)	6	2	7	4	8
weight in kilograms (y)	30	10	35	20	40

Every concrete block weighs _____ kilograms.

Answers

Ex. ___**y = 37x**___

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

Math

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Answer Key

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

Ex)

Enemies Destroyed (x)	6	3	8	10	2
Points Earned (y)	222	111	296	370	74

Every enemy destroyed earns ___37___ points.

Ex. __$y = 37x$__

1)

Glasses of Lemonade (x)	2	4	8	5	10
Lemons Used (y)	6	12	24	15	30

For every glass of lemonade there were ___3___ lemons used.

1. __$y = 3x$__

2. __$y = 38x$__

2)

Lawns Mowed (x)	6	4	7	5	10
Dollars Earned (y)	228	152	266	190	380

For every lawn mowed ___38___ dollars were earned.

3. __$y = 10x$__

4. __$y = 19x$__

3)

Tickets Sold (x)	2	8	6	10	3
Money Earned (y)	20	80	60	100	30

Every ticket sold ___10___ dollars are earned.

5. __$y = 29x$__

6. __$y = 50x$__

4)

Boxes of Candy (x)	2	6	9	4	10
Pieces of Candy (y)	38	114	171	76	190

For every box of candy you get ___19___ pieces.

7. __$y = 20x$__

8. __$y = 5x$__

5)

Time in minute (x)	2	8	9	3	10
Gallons of Water Used (y)	58	232	261	87	290

Every minute ___29___ gallons of water are used.

6)

Phone Sold (x)	4	5	3	7	6
Money Earned (y)	200	250	150	350	300

Every phone sold earns ___50___ dollars.

7)

Votes for Amy (x)	10	2	8	5	9
Votes for Will (y)	200	40	160	100	180

For Every vote for Amy there were ___20___ votes for Will.

8)

Concrete Blocks (x)	6	2	7	4	8
weight in kilograms (y)	30	10	35	20	40

Every concrete block weighs ___5___ kilograms.

Math