



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

Answers

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.

Ex. $y = 39x$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

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 Rachel (x) | 3 | 9 | 6 | 8 | 2 |
| Votes for Sam (y) | 60 | 180 | 120 | 160 | 40 |

For Every vote for Rachel there were _____ votes for Sam.

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.



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Answers

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.

Ex. $y = 39x$

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.

1. $y = 20x$

2)

| | | | | | |
|-----------------------------|----|-----|-----|-----|----|
| Votes for Rachel (x) | 3 | 9 | 6 | 8 | 2 |
| Votes for Sam (y) | 60 | 180 | 120 | 160 | 40 |

For Every vote for Rachel there were 20 votes for Sam.

2. $y = 20x$

3)

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

Every ticket sold 10 dollars are earned.

3. $y = 10x$

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.

4. $y = 30x$

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.

5. $y = 2x$

6)

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

Every concrete block weighs 8 kilograms.

6. $y = 8x$

7)

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

Every phone sold earns 29 dollars.

7. $y = 29x$

8)

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

Every enemy destroyed earns 49 points.

8. $y = 49x$