



Determine if the values in the table are proportional (yes) or not (no).

1)

X	Y
-4	-5
-3	-6
-2	-7
-1	-8

2)

X	Y
6	-2
7	-1
8	0
9	1

3)

X	Y
-70	-10
-56	-8
-14	-2
-7	-1

4)

X	Y
6	3
7	4
8	5
9	6

5)

X	Y
1	10
2	20
7	70
10	100

6)

X	Y
2	2
4	4
8	8
10	10

7)

X	Y
20	-32
15	-24
10	-16
5	-8

8)

X	Y
70	-10
63	-9
35	-5
21	-3

9)

X	Y
2	7
6	21
18	63
20	70

10)

X	Y
-12	-32
-9	-24
-6	-16
-3	-8

11)

X	Y
9	3
36	6
64	8
81	9

12)

X	Y
2	4
3	6
4	12
7	21

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

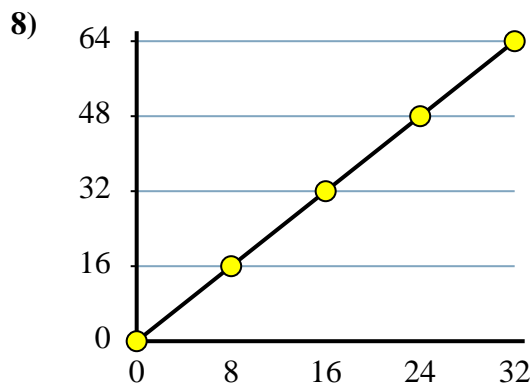
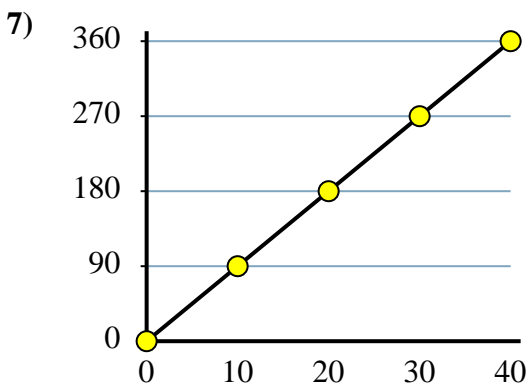
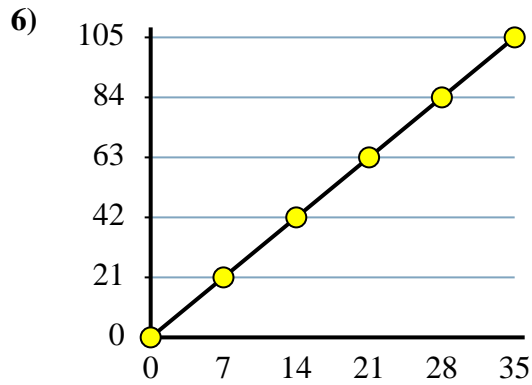
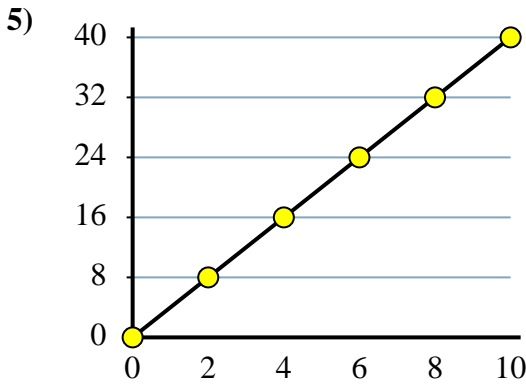
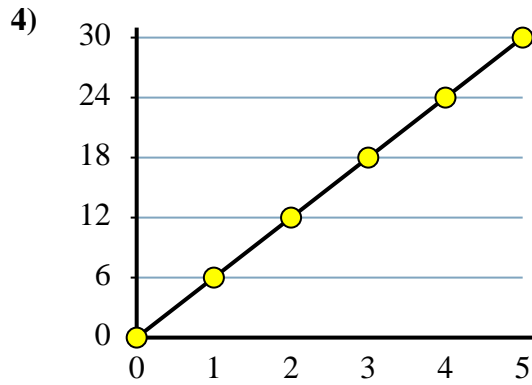
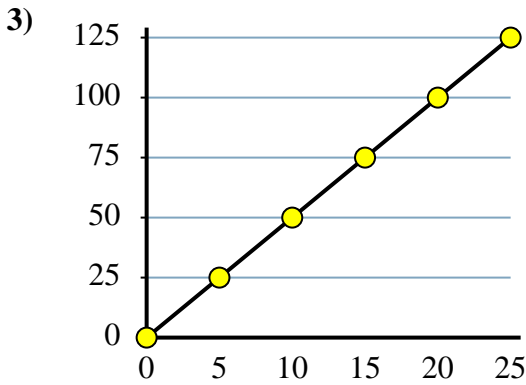
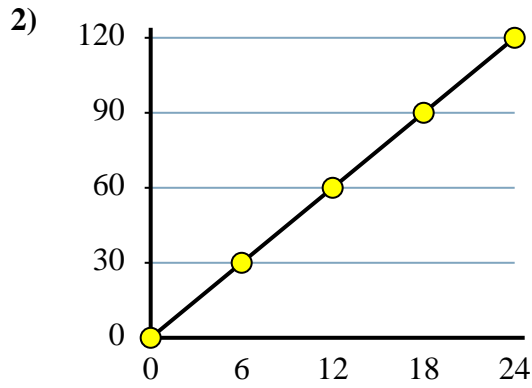
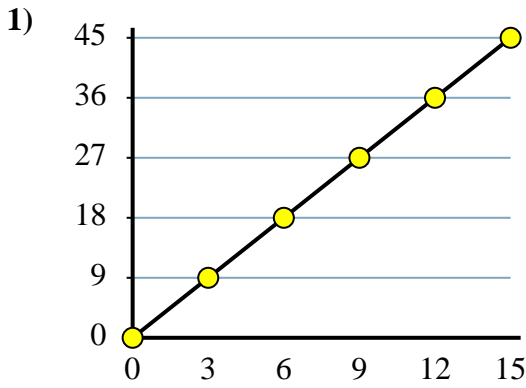
10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Identify the constant of proportionality. Write your answer as  $y = kx$



Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_



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

**Answers**

Ex)

Concrete Blocks (x)	3	8	10	6	7
weight in kilograms (y)	30	80	100	60	70

Every concrete block weighs 10 kilograms.

Ex.  $y = 10x$

1)

Cans of Paint (x)	5	10	6	9	2
Bird Houses Painted (y)	15	30	18	27	6

For every can of paint you could paint    bird houses.

1. \_\_\_\_\_

2. \_\_\_\_\_

2)

Votes for Faye (x)	9	7	6	8	3
Votes for Victor (y)	342	266	228	304	114

For Every vote for Faye there were    votes for Victor.

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

3)

Chocolate Bars (x)	6	4	10	3	8
Calories (y)	1,212	808	2,020	606	1,616

Every chocolate bar has    calories.

6. \_\_\_\_\_

7. \_\_\_\_\_

4)

Pieces of Chicken (x)	7	8	6	10	2
Price in dollars (y)	14	16	12	20	4

For each piece of chicken it costs    dollars.

8. \_\_\_\_\_

5)

Boxes of Candy (x)	2	5	9	7	10
Pieces of Candy (y)	32	80	144	112	160

For every box of candy you get    pieces.

6)

Lawns Mowed (x)	7	6	10	3	4
Dollars Earned (y)	301	258	430	129	172

For every lawn mowed    dollars were earned.

7)

Time in minute (x)	9	2	7	3	10
Distance traveled in meters (y)	117	26	91	39	130

Every minute    meters are travelled.

8)

Pounds of Beef Jerky (x)	7	8	5	6	10
Price in dollars (y)	84	96	60	72	120

For every pound of beef jerky it cost    dollars.

**Solve each problem.**

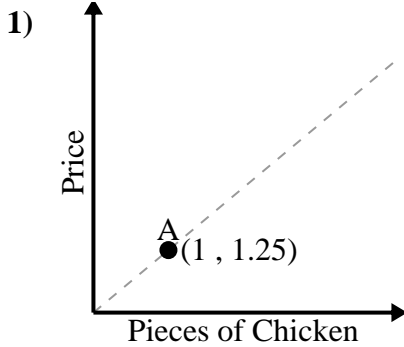
- 1) Using 50 boxes of nails a carpenter was able to finish 450 bird houses. Write an equation that can be used to express the relationship between the total number of birdhouses completed( $t$ ) and the boxes of nails( $b$ ) used.
- 2) A chef bought 3 bags of oranges at the supermarket and it cost her \$5.82. Write an equation that can be used to express the relationship between the total cost( $t$ ) and the number of bags of oranges( $b$ ) purchased.
- 3) It cost \$1,144.66 for 86 pounds of beef jerky. Write an equation that can be used to express the relationship between the total cost( $t$ ) and the pounds of beef jerky( $p$ ) purchased.
- 4) A school had to buy 27 new science books and it ended up costing \$630.72 total. Write an equation that can be used to express the relationship between the total cost( $t$ ) and the number of books( $b$ ) purchased.
- 5) A company used 99 lemons to make 11 bottles of lemonade. Write an equation that can be used to express the relationship between the total number of lemons needed ( $t$ ) for each bottle of lemonade ( $b$ ).
- 6) You can buy 4 pieces of chicken for \$6.80. Write an equation that can be used to express the relationship between the total price( $t$ ) and the pieces of chicken( $c$ ) you buy.
- 7) The combined weight of 12 concrete blocks is 179.64 kilograms. Write an equation that can be used to express the relationship between the total weight( $t$ ) and the number of concrete blocks( $b$ ) you have.
- 8) Wendy traveled 73.96 kilometers in 86 minutes. Write an equation that can be used to express the relationship between the total kilometers traveled( $t$ ) and the minutes( $m$ ) it took.
- 9) A phone store earned \$105.45 after they sold 19 phone cases. Write an equation that can be used to express the relationship between the total money earned ( $t$ ) and the number of cases( $c$ ) sold.
- 10) At a carnival it costs \$6.54 for 3 tickets. Write an equation that can be used to express the relationship between the total cost ( $t$ ) and the number of tickets( $n$ ) you buy.

**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



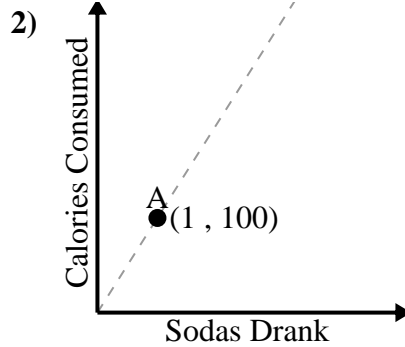
Determine what the value of A means in each problem.



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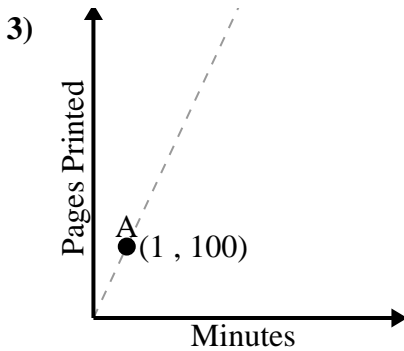
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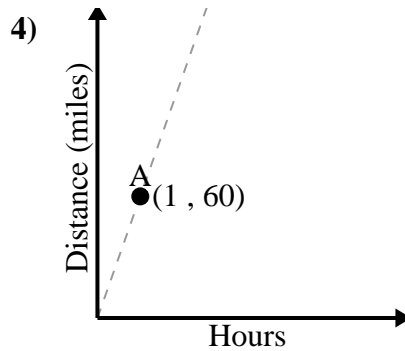
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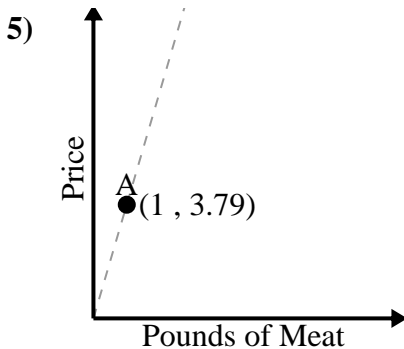
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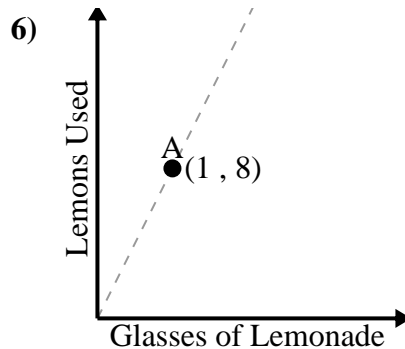
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Find the missing value.

1)  $\frac{\quad}{60} = \frac{85}{100}$

2)  $\frac{\quad}{52} = \frac{25}{100}$

3)  $\frac{\quad}{64} = \frac{75}{100}$

4)  $\frac{\quad}{68} = \frac{50}{100}$

5)  $\frac{\quad}{48} = \frac{50}{100}$

6)  $\frac{\quad}{45} = \frac{20}{100}$

7)  $\frac{\quad}{40} = \frac{70}{100}$

8)  $\frac{\quad}{70} = \frac{70}{100}$

9)  $\frac{\quad}{55} = \frac{40}{100}$

10)  $\frac{\quad}{36} = \frac{50}{100}$

11)  $\frac{\quad}{35} = \frac{20}{100}$

12)  $\frac{\quad}{65} = \frac{40}{100}$

13)  $\frac{\quad}{28} = \frac{75}{100}$

14)  $\frac{\quad}{25} = \frac{24}{100}$

15)  $\frac{\quad}{44} = \frac{75}{100}$

16)  $\frac{\quad}{20} = \frac{20}{100}$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_