

Name _____ Period _____

Determine if the table has a constant of proportionality, if so determine the value.

①

X	Y
0	0
1	3
2	6
3	9

②

X	Y
1	2
2	4
3	8
4	16

③

X	Y
1	5
2	10
3	15
4	20

Determine the missing value with the given tables that have a constant of proportionality.

④

X	Y
0	
1	13
2	
3	39

⑤

X	Y
1	26
2	
3	
4	

⑥

X	Y
4	
8	120
10	
12	

Use the equation to determine the table values, then identify the constant of proportionality.

⑦

$Y = 2x$

X	Y
0	
1	
2	
3	

Constant Proportionality =

⑧

$y = 6x$

X	Y
0	
1	
2	
3	

Constant Proportionality =

⑨

$y = 15x$

X	Y
5	
8	
10	
12	

Constant Proportionality =

Determine if the given ordered pairs create proportionality.

10) (2,8) and (4,60)

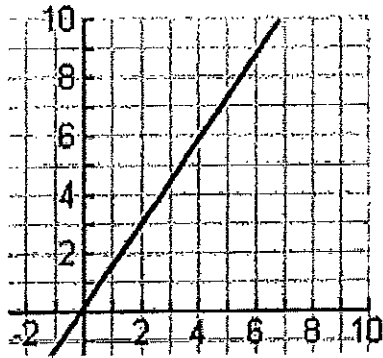
11) (1.5,6) and (3.5,21)

12) (7,16.8) and (10,20)

Use the graph to determine table values. Then determine the constant of proportionality.

13)

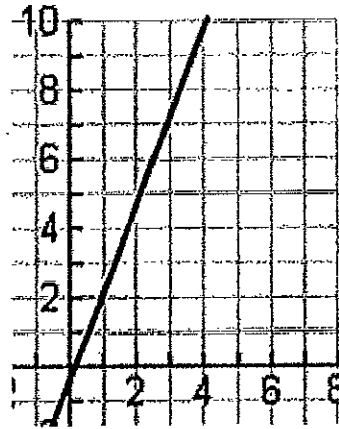
X	Y
0	
2	
4	
6	



Constant Proportionality =

14)

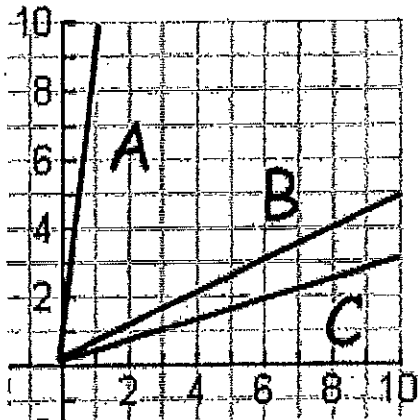
X	Y



Constant Proportionality =

Determine from least to greatest the constant of proportionality, given the graph.

15)

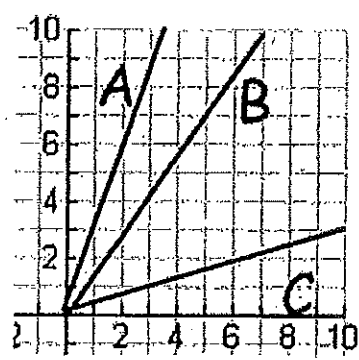


16 Determine the graph lines of constant of proportionality and match them with the table.

X	Y
0	0
3	1
6	2
9	3

X	Y
0	0
2	3
4	6
8	12

X	Y
0	0
1	3
2	6
3	9

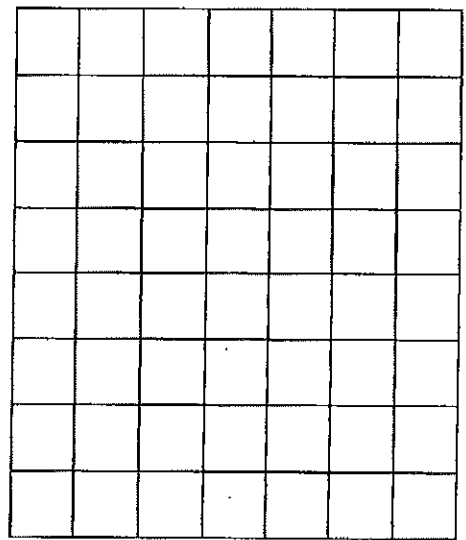


17 The Jones family drives 200 miles in 5 hours.
The Grant family drives 360 miles in 6 hours.

a) Complete the table for each family.
Graph each family's rate in a different color.

Jones Family	
Hours	Miles

Grant Family	
Hours	Miles



b) Jones Family unit rate: _____
Grant Family unit rate: _____

c) Which family is driving faster? _____ How do you know? _____



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	8	10	6	7
weight in kilograms (y)	30	80	100	60	70

Every concrete block weighs 10 kilograms.

18)

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.

19)

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.

20)

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

Every chocolate bar has calories.

21)

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.

22)

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.

23)

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

For every lawn mowed dollars were earned.

24)

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

Every minute meters are travelled.

25)

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.

Answers

Ex. $y = 10x$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____