

3.2 Assignment

Name _____

Calculate the rate of change between the points listed in each table. Determine if the table represents a linear relationship.

1.

Number of Balloons	Total Cost of Balloons (in Dollars)
2	6
4	12
6	18
8	24

2.

Number of Lawns	Total Earned (in Dollars)
3	25.50
5	42.50
7	59.50
9	76.50

3.

Number of Touchdowns	Total Points Scored
2	12
3	18
4	24
5	30

4.

Number of Minutes on an Exercise Bike	Total Number of Calories Burned
15	180
30	360
45	540
60	720

5.

Number of Hours	Total Number of Miles Traveled
2	130
5	325
8	520
11	715

6.

Number of Songs Downloaded	Total Cost of Songs (in Dollars)
10	9.90
20	19.80
30	29.70
40	39.60

Calculate the rate of change between the points listed in each table. Determine if the table represents a linear relationship.

7.

Number of Raffle Tickets	Total Cost of Raffle Tickets (in Dollars)
2	1
4	2
8	4
10	5

8.

x	y
-2	8
0	0
2	-8
4	-16

9.

Number of Photos Printed	Total Cost of Photos (in Dollars)
10	2
20	4
30	6
40	8

10.

x	y
3	27
5	45
7	63
9	81

11.

Number of Greeting Cards	Total Cost of Greeting Cards (in Dollars)
2	6.50
3	9.75
6	19.50
8	26.00

12.

x	y
-3	54
1	-18
3	-54
7	-126

Calculate the rate of change between the points listed in each table. Determine if the table represents a linear relationship.

13.

x	y
2	14
5	35
7	49
10	70

14.

x	y
$\square 10$	50
$\square 2$	10
4	$\square 20$
14	$\square 70$

15.

x	y
$\square 1$	$\square 24$
2	48
4	90
8	192

16.

x	y
$\square 6$	12
$\square 3$	6
3	$\square 6$
6	$\square 10$

17.

x	y
2	13.5
5	33.75
10	67.75
15	101.25

18.

x	y
$\square 4$	$\square 38$
$\square 1$	$\square 9.5$
2	19
3	27