Name:

Hour:

1. Penny takes her laundry to the laundry mat. The cost to do laundry is based on the total weight of the clothes. Use the table below to answer the questions:

x (pounds)	y (dollars)
12	\$6
16	\$8
20	\$10
24	\$12
× 1/2	

a. What is constant of proportionality?

b. Write an equation for the relationship.

c. How many pounds of clothes did Penny bring if her total was \$20? $20 = \frac{1}{2} \times \frac{1}{2} \times$ clothing? $U = \frac{1}{2}(36)$

2. 24 cars enter the parking garage every 3 hours. The parking garage holds 160 cars. Assume, that this continues at a constant rate and no cars leave the garage. Use this information to fill in the table.

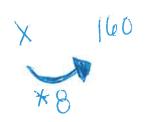
x (hours)	y (car)
0	0
3	24
6	48
9	72
12	96

a. What is constant of proportionality?

b. Write an equation for the relationship.

c. How long will it take before the garage is full? 160=8X

d. How many cars will be in the garage after 15 hours?



7.4 I can use a table to determine if the relationship varies directly.

4.

True or False.

2
J.

x	у
1	2
	71×2

1	2
	71 *2
2	-4
	NX -2

	Ů
4	-8
5	10



	71	
x		y

,,,	,
0	0
3	1
	2

6	2
9	3
12	4

42	
T	
1	A
x	1/

x	у
-2	-4

5.

~1	
0	0
1	2

4

2

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ŀ	ำ	

х	У
-3	9
-1	1

0	0
1	1





Find the constant of proportionality. Use the constant to write an equation in the form y = kx.

7.

- 1						
	Cats (x)	3	4	5	6	7
	Whiskers (y)	18	24	30	36	42

Constant:

Equation:

8.

Watermelon (x)	1	3	6	9	12
Seeds (y)	32	96	192	288	384

Constant:

Equation:

$$y = 32 x$$