

Name: _____ Period: _____ Due: _____

Score: ___ / ___

Percent: _____ = $\frac{\quad}{10}$

ASSIGNMENT 5-2

TABLES, TABLES AND MORE TABLES

**SYW: NO WORK = NO CREDIT
WORK IN PENCIL ONLY!**

PROPORTIONALITY

1. The lemonade stand at the county fair sells the lemonade at a price of two cups for \$3.60.
- a. Complete the table below to find what Libby's family will pay to buy lemonade for all eight members of the family.
 - b. Is this relationship proportional? Yes / No
If no: why not? _____
If yes: What is the Unit Rate per cup? _____

# of Lemonades	Price (\$)
1	
2	3.60
3	
4	7.20
5	
6	
7	
8	

2. You have been given the mass and volume of different-sized wood blocks.
- a. Complete the table below.
 - b. Is the relationship between mass and volume proportional? Yes / No
If no: why not _____
If yes: What is the Unit Rate of mass to volume? _____

Volume (L)	Mass (kg)
3	1.2
4	1.6
5	2
6	
7	2.8
12.50	5
15	
20	

3. Naomi was playing keep away with her siblings. She is trying to keep the ball away from her brother.
- a. Is the relationship between the height of the ball and time proportional? Yes / No

Time (sec)	Height (ft)
0	4
1	7
2	8
3	7
4	4

If no: why not? _____

If yes: What is the Unit Rate per second? _____

4. You have been given the mass and volume of different-sized bricks.
- Complete the table below.
 - Is the relationship between mass and volume proportional? Yes / No
If no: why not? _____

If yes: What is the Unit Rate of mass to volume? _____

Volume (L)	Mass (kg)
2.5	5
3.5	
5	10
6	12
8	
10	

5. The table below shows the costs of JR Plumbing. They have an initial fee of \$45 for making the house call.

Hours	0	1	2	3	
Plumbing Cost	\$45	\$70		\$120	\$145

- Complete the table above.
- Is the relationship between hours of service and the plumbing cost proportional? Yes / No
If no: why not? _____

If yes: What is the Unit Rate per hour? _____

Review. Use the order of operations to simplify the problems below.

6. $-32 \div 4(3-5)^2 + |-12| =$

7. $10 \div 2(4-3)^2 + (-10)$

Factor the following:

8. $-15x + 35$

9. $28 - 36y$

10. $-6xy - 14x$