Unit: Proportional Relationships Homework 2

Name ______
Date Pd____

PROPORTIONAL RELATIONSHIPS: TABLES

Use your understanding of rate of change to answer the questions below.

- 1. Three pounds of bananas cost \$1.95. Which of the following is not true? 1.95-3=0.65
- (a.) One pound of bananas is \$0.75.
- b. The equation y = 0.65x could be used to determine the cost of x pounds of bananas.
- c. Seven pounds of bananas is \$4.55.

2. As the x-values increase by 1, the y-values increase by 15. Which equation shows this?

Y=KX

a. y = 15 + x

b. y = 15 - x

c.) y = 15x

4=15x

For each table below, determine the rate of change and write an equation.

3.

X	y
1	4
2	8
3	12
4	16

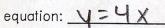
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X	y
2	7
4	14
6	21
8	28

5

X	У
4	3
5	3.75
6	4.5
7	5.25

rate of change: _ 4



rate of change: 3.5

equation: Y=3.5x

rate of change: 0.75

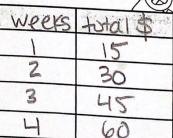
equation: Y=0.75X

6. James is saving \$15 per week in order to purchase a gaming console. Create a table to represent the relationship between x, the number of weeks and y, the total amount James has saved.

a. Write an equation to represent the situation.

b. James has a goal to save \$360 in 22 weeks. Will he meet his goal? Explain.

15.22=\$330 no



7. Mr. Brown asked his students create a representation with a rate of change of 2.5. Circle the students who correctly completed the task.

ELIJAH

y = 2.5 + x

Four boxes of

tissue cost \$10.

