

Unit 6 Assignment 1
Tables of Values and Graphing Linear Equations

Name: _____

Total: /30

This assignment will be collected and marked.

1. Josh is planning a tennis party for his upcoming birthday. It costs \$40 to rent the tennis court, plus an additional \$6 per person for lunch. This relation can be described by the following linear equation: $y = 6x + 40$.

(a) What does y represent in this linear relation? (1 pt)

(b) What does x represent in this linear relation? (1 pt)

(c) Using the table below and the linear relation, determine the missing values. (2 pt)

x	1	2	3	4	5
y	46	52		64	

(d) How much will it cost in total if Josh invites 10 people? (1 pt)

2. Fill in the table of values for the linear equation: $w = 8 - 3s$. (5 pt)

s	-3	-2	-1	0	1
w					

3. For the following linear relation: $y = -3x + 2$.

a) Create a table of values starting at -3. (3 pt)

x	-3					
y						

b) Draw the corresponding graph. (3 pt)

c) Describe the relationship between the variables in the graph. (1 pt)

d) Is the relation linear? How do you know? (1 pt)

4. Graph each relation for integer values of x from -3 to 3.

a) $y = 9x - 3$ (4 pt)

b) $y = -4x + 6$ (4 pt)

c) $y = -8 - 2x$ (4 pt)