Name: _____ Grade 8

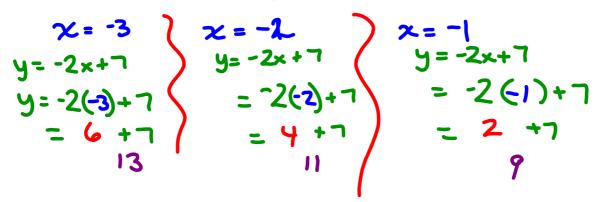
Grade 8 Unit 6 Test Review

1. Complete this table of values for the relation y = 3x - 5 for the following table. Show work

| x | 1 | 2 | 3 | 4 | 2= | 7 2= 2 | りょる |
|---|----|---|---|---|---------------|--------|---------------------|
| у | -2 | 1 | 4 | 7 | y=3x-5 | y=3x-5 | y=3x-5 |
| | | | | | = 3(1)-5 | =3(2)- | - 3(3)-5 |
| | | | | | = 3 -5 | = 6 -5 | = 9 -5 |
| | | | | | | • | |

 Complete this table of values for the relation y = -2x + 7 for x = -3 to +3. Make a table and show work

| X | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
|---|----|----|----|---|---|---|---|
| Y | 13 | 11 | 9 | 7 | 5 | 3 | 1 |



3) <u>a)The</u> ordered pair (7,) is in the linear relation with equation y = -9x - 2. Find the missing number in the ordered pair. (Show work)

$$y = -9x - 2$$
 $= -9(7) - 2$
 $= 63 - 2$
 $y = 61$
 $(7,61)$

b) The ordered pair (-11,) is in the linear relation with equation y = -9x - 2. Find the missing number in the ordered pair. (Show work)

$$y = -9x - 2$$
 $y = -9(-11) - 2$
 $y = -99 - 2$
 $(-11, 97)$

$$y = -9x - 2$$

$$-209 = -9x - 2$$

$$-209 = -9x - 2^{-2}$$

$$-207 = -9x$$

$$-207 = -9x$$

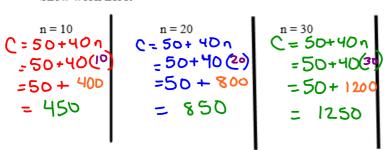
$$(23 = x)$$

$$(23 - x)$$

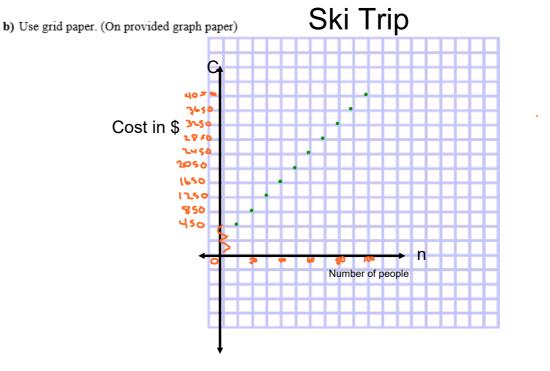
1. The snowboard club is planning a trip to a local hill. A bus company will charge them using the formula C = 50 + 40n, where C is the total cost for n people.

a) Create a table of values for the relation.
Use these values of n: 10, 20, 30, 40, 50, 60, 70

Show work here:



| n | С | 69 HQ |
|----|-------|----------|
| 10 | 450 | J up " |
| 20 | 8 50 | U |
| 30 | 1250 | |
| 40 | 1650 | |
| 50 | 902D | |
| 60 | 24 50 | |
| 70 | 2850 | |



- c) Describe the relationship between the variables in the graph. (What happens to n and C in the chart?)

 As the number of people increase by 10, the cost increases by \$400.
- d) A parent group is willing to give the club \$410? How many people could go on the trip (Show work)

e) When drawing the graph can you connect the dots? Why or why not?

No you cannot Connect the dots

Since you cannot have half a person

go on the trip.

2) If you have a question dealing with negative values for money, what does that mean for the person? (What does negative money mean?)

> Negative money means you lose money, in debt or owe money.