6 Rev C: Practice for Test Chapter 6 (8CP) Name_____

Date _____ Per _____

1. Fill in the table then write an equation that describes the function shown by the table.

Input, x	-4	0	4	8		100	0.5
Output, y	17		-15	-31	21		

2. The table shows the number of cupcakes remaining in the bakery case throughout the day.

Hours x	Number of cupcakes, y
1	75
4	63
7	51
10	39

a. Write an equation that relates the number of cupcakes to the hours that the bakery is open.

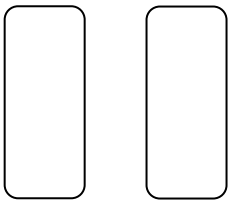
_____

b. How many cupcakes are in the case after 9 hours?

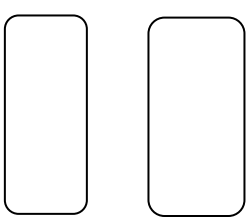
_____

Create 2 mapping diagrams – one that is a function and one that is not. List the ordered pairs.

3.



4.



5. Sue is saving money to buy a laptop. She has $45 in the bank and is saving $15 each week.

a. Write the rule for this situation _____

b. Graph using appropriate scale and label axes

c. Interpret the slope in the context of this problem:

_____

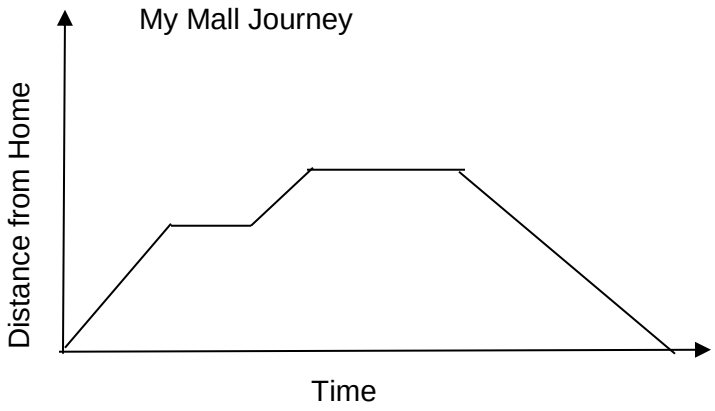
d. Interpret the y-intercept in the context of this problem:

_____

e. if the laptop is $450 when will she have enough money to buy it?

_____

6. Write a complete story for the graph.



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7. Solve:

a. 4x - 9 = 7x + 12 b. $\frac{1}{2}(4x - 8) = -20$ c. 2x + 6 + x = 3(x + 2)

Find the value of y for the given value of x.

8. $y = -\frac{1}{2}x + 9$ for $x = 16$

9. $y = 12x - 100$ for $x = 8$

10. Graph the equations:

$y = \frac{1}{3}x - 4$ y = -4x + 7

Slope: _____ m = _____

y-intercept: _____ b = _____