Determine the function rule for the following table of values.

1. Cans of

Orange Juice	Total Cost	
1	\$1.25	
2	\$2.50	
3	\$3.75	
4	\$5.00	

2.

Hours a	Cost to		
Plummer	Home		
Works	Owner		
1	\$65		
2	\$90		
3	\$115		
4	\$140		
	Plummer Works 1 2		

3.

Time (hours)	Cost of Bike Rental
1	\$10
2	\$16
3	\$22
4	\$28

Base your answers below on the following situation.

4. The weight (w) of a backpack depends on the number of books (b) in the backpack. Susan's bookbag weighs 2 pounds and each book weighs 2.5 pounds. She can pack at most 5 books.

a) Create a table of values to display a reasonable domain and range for this situation.

Books (b)			
Weight (w)			

b) Determine a function rule to represent the following situation.

c) Does this data represent continuous or discrete data? Justify your response.

d) If Susan crammed 7 books in her bookbag, how much weight would she be carrying?

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a) Create a table of values to display a reasonable domain and range for this situation.

Books (b)	O	1	2	3	4	5
Weight (w)	2	4.5	7	9.5	12	14.5

b) Determine a function rule to represent the following situation.

$$W = 2 + 2.5b$$

c) Does this data represent continuous or discrete data? Justify your response.

Discrete because the input, books, connot be described using decimals. ie There isn't a half a book

d) If Susan crammed 7 books in her bookbag, how much weight would she be carrying?