	DATE	PER
ANALYZ	ING FUNCTIONAL RELATIONSHIP	PS – Day 2
A book club charges an ann	ual fee of \$25 and \$9.50 for each book	that is purchased.
1. Write a function to find the	annual cost, A, for purchasing b books.	
Equation:	In function notation:	
2. What would be the annual	cost of purchasing a book each month? _	
3. How many books were pur	chased if the annual cost was \$177.00?	
4. Circle one: The domain is a	discrete / continuous.	
When the meter in a taxi is f each mile driven.	irst turned on, it reads \$2.20. As the t	axi travels, \$1.90 is added for
5. Write a function to find the	total cost of the taxi ride, <i>T</i> , for traveling	<i>m</i> miles.
Equation:	In function notation:	
6. What is the value of T(22)?		
Meaning of this question in	words:	
T(22) =		
7. How many miles were trave	eled if the taxi ride cost was \$27.85?	
8. <i>Circle one:</i> The domain is a	discrete / continuous.	

9. Joseph needs to travel between 5 and 10 miles to reach his destination. What inequality represents the range of the function for this situation?

A. {12.08, 20.82} C. 12.08 ≤ T ≤ 20.82

B. 11.7 ≤ T ≤ 21.2 D. {11.7, 21.2}

A customer pays an annual membership fee of \$85 to a neighborhood car wash. Each time he takes his car to the car wash, he pays only \$7. The total amount of money he spends at the car wash in one year in dollars can be found using the function y = 7x + 85.

10. How much will it cost if he takes his car to the car wash each month? _____

11. If he pays a total of \$127, how many times did he take his car to the car wash? _____

12. _____ What does the variable x represent in this function?

A. The total amount of money the customer spends each month at the car wash

B. The number of months the customer has been a member at the car wash

C. The number of times the customer takes his car to the car wash in one year

D. The cost each time the customer takes his car to the car wash

13. _____ If he pays between \$141 and \$162 this year, what is the domain of this situation?

A. 141 ≤ y ≤ 162
B. {141, 148, 155, 162}
C. 8 ≤ x ≤ 11
D. {8, 9, 10, 11}

REVIEW.

14. One house painter charges an initial fee of \$25, plus \$15 per hour. A second painter charges \$25 per hour. How many hours would it take for the charge of the second painter to be the same as the charge of the first painter?

	Equation:
A. 1	
B. 1½	
C. 2	
D. Not here	