Name:			
1.	The label on the can of paint that Chang bought stated that 1 gallon of paint will cover 300 square feet. The function $feet(g)$ represents the number of square feet that g gallons will cover.		
	a.	What are the domain and range of feet?	
		domain: range:	
	b.	Fill in the output column for the function feet(g), completing the two examples provided to show how the number of square feet that can be painted relates to the number of gallons provided.	
		f(2) f(3)	
	с.	Write the function feet(g), that represents the number of feet that g gallons will cover.	
		feet(g) =	
2.	The to	tal for a phone bill, $t(m)$, starts at \$19, plus an additional \$0.25 per minute m of use.	
	a.	What are the domain and range of t?	
	u.	domain: range:	
	7		
	b.	Make a table for the function t(m), that shows how the total bill is related to the number of minutes of use.	
	C.	Which of the following equations can be used to determine the total monthly bill, t, for m minutes of use? (circle one)	
	t(m) = 0	0.25m + 19 $t(m) = 0.25m - 19$ $t(m) = 19m + 0.25$ $t(m) = 19m - 0.25$	
3.		studied for one hour less than twice as many hours as Melissa studied. Let m stand for the er of hours Melissa studied. The function $a(m)$ represents the number of hours Ashley studied.	
	a.	What are the domain and range of a?	
		domain: range:	
	b.	Make a table for the function a(m), that shows how the number of hours Ashley studied is related to the number of hours that Melissa studied.	
	с.	Which of the following equations describes the relationship between m and a(m)? (circle one)	
	a(m)	$= \frac{1}{2}m + \frac{1}{2} \qquad \qquad a(m) = \frac{1}{2} + \frac{1}{2}m \qquad \qquad a(m) = \frac{2m}{2} + \frac{1}{2}m$	

4.	Laila is having shirts made with a logo printed on them to promote her band. The total cost is a one-time fee of \$75 to have the logo designed, plus \$8 per shirt to print the logo. Write an equation that Laila can use to determine the total cost $C(\mathbf{x})$, in dollars, to make x shirts.			
	a.	What are the domain and range of C?		
		domain: range:		
	b.	Make a table for the function $C(x)$, that shows how the cost is related to the number of shirts printed.		
	C.	Write the function $C(x)$, that represents the cost to make x shirts.		
		$C(\mathbf{x}) = \underline{\hspace{1cm}}$		
5.	Ms. Gleason is opening a new restaurant. She has enough booths to seat up to 40 people, and is ordering tables to fill the rest of the seating space. Each of these tables can seat up to 6 people. If t represents the number of tables Ms. Gleason orders, write a function $p(t)$, which shows the number of people p that can be seated at booths and tables.			
	a.	What are the domain and range of p?		
		domain: range:		
	b.	Make a table for the function $p(t)$, that shows how the number of tables is related to the number of people that can be seated at the restaurant.		
	C.	Write the function $p(t)$, that represents the number of people that can be seated at tables and booths.		
		<i>p</i> (t) =		
6.		mpleted a hiking trail in t hours. Michelle completed the trail in half the time it took Jeff to ete it. A function $\mathbf{m}(t)$ represents the time it took Michelle to complete the trail compared to Jeff.		
	a.	What are the domain and range of m?		
		domain: range:		
	b.	Fill in the output column for the function $m(t)$, completing the two examples provided to show how the number of hours it took Michelle compared to Jeff.		
		m(10)		
		m(20)		
	С.	Which of the following equations describes the relationship between t and $m(t)$? (circle one)		
	m(t)	$= 2 \times t$ $m(t) = 2 \div t$ $m(t) = t - 2$ $m(t) = t \div 2$		