All the questions on this page refer to the following four functions:

$$m(a) = a-2$$

$$b(y) = 3y$$

$$y(h) = h/2$$

$$q(a,b) = a+2b$$

1. What is the value of b(0)? (circle one)

2. What is the value of m(20)? (circle one)

3. What is the value of y(6)? (circle one)

Can't be evaluated

4. What is the value of q(2,3)? (circle one)

5. What is the value of m(1+3)? (circle one)

6. What is the value of q(4, 5)? (circle one)

7. What is the value of b(y(4))? (circle one)

8. What is the value of q(b(1), m(3))? (circle one)

Can't be evaluated

10. The table below shows a relationship between values of x and g(x):

X	2	3	4	5	6
$g(\mathbf{x})$	7	12	19	28	39

a. What are the domain and range of g?

g:_____→

b. Can you write two examples, using this function with 7 and 8 as inputs?

<i>g</i> (7)	
g(8)	

Which of the following equations describes the relationship between x and g(x) in the table? (circle

$$g(x) = 4x + 1$$

$$g(x) = 5x^2 - 2$$

$$g(x) = x^2 + 3$$

$$g(x) = x^2 + 8$$

11. Ashley has one more than twice as many puppies as Melissa. Let m stand for the number of puppies Melissa has. The function a(m) represents the number of puppies Ashley has.

a. What are the domain and range of a?

a : _____ → ____

b. Can you write two examples using this function? (you can choose your own inputs)

a()	
a()	

c. Which of the following equations describes the relationship between m and a(m)? (circle one)

$$a(m) = \frac{1}{2}m + 1$$

$$a(m) = 1 + \frac{1}{2}m$$

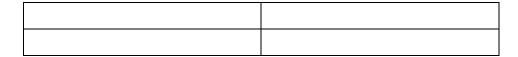
$$a(m) = 1m + 2$$

$$a(m) = 1 + \frac{1}{2}m$$
 $a(m) = 1m + 2$ $a(m) = 2m + 1$

12. A school has twice as many girls as boys. Write a function b(g) that describes the number of boys in relation to the number of girls g.

a. What are the domain and range of b?

b. Can you write two examples using this function?



c. Write the function b(q), which represents the number of boys at a school with g girls.

sticke	is making bumper sticker to runers designed, plus 0.50 per printecost $C(s)$, in dollars, to make s stickers.	d sticker. Write an equation		he	
a.	What are the domain and range	of C?			
	C:	>			
b.	o. Can you write two examples using this function?				
c.	Write the function $C(s)$, that re	presents the cost to make s stic	ckers.		
	<i>C</i> (s) =				
studer repres	ncipal wants to take the entire sch nts, and will have to rent buses to sents the buses the principal orde can be transported if the school or	take the rest. Each of the burs, write a function $s(b)$, which	ses can carry up to 40 students. If ch shows the number of students s	f <i>b</i>	
a.	What are the domain and range	of s?			
	s:	>			
b.	b. Can you write two examples using this function?				
C.	Write the function s(b), that rebuses.	presents the number of student	ts that can be transported on vans a	ınd	
	<i>s</i> (b) =				
	ielle and Damoni are frosting cakes Damoni. A function $g(d)$ represoni.				
a.	What are the domain and range	of g?			
	g:	>			
b.	Can you write two examples usin	ng this function?			
_	Which of the fell	describes the notation like 1 .			
C.	3 3 3 1	-	_		
g(a)	$(d) = 2 \times d$ $g(d) = 2 \div$	g(u) - u - 2	$g(d) = d \div 2$		

t(m) = 0.25m + 19

			narbles as red marbles. Wi		
a.	What are the d	omain and range of r?			
	r:		<i>></i>		
b.	b. Can you write two examples using this function?				
c.	·	•	ts the number of red marble	_	
	of the runner. A		ed of the world's fastest hu the speed of the train, in ro		
a.	What are the d	omain and range of t?			
	t:		<i>></i>		
b.	Can you write t	wo examples using this fu	nction?		
с.	Which of the fol	lowing equations describe	s the relationship between d	l and t? (circle one)	
<i>t</i> (h)=	= 50 - 2h	t(h) = 50h + 2	t(h) = 2h - 50	t(h)=2h+50	
	-	•	us an additional \$0.25 per	minute <i>m</i> of use.	
a.		omain and range of t?	Manago.		
b.			range:rhows how the total bill is re		
С.	Which of the foluse? (circle one		sed to determine the total m	onthly bill, t, for m minutes of	

t(m)=0.25m-19 t(m)=19m+0.25 t(m)=19m-0.25