Test, Form 2B

NAME_

Write the letter for the correct answer in the blank at the right of each question.

For Exercises 1 and 2, determine whether each relation is a function.



2. **yes**

В

- 3. The relation {(5, 0), (1, 9), (2, 4), (0, 3), (8, 6)} is not a function when which ordered pair is added to the set?
 A. (-6, -8) B. (2, 7) C. (3, 0) D. (9, 1) 3. _____
- 4. Which equation corresponds to the table of ordered pairs?

1.	vinien equation	corresponds to		rea paris.					
		x -4 y -6	8121691419						
	F. $y = \frac{4}{5}x - 1$	G. $y = x - 1$	H. $y = \frac{4}{5}$	J. $y = \frac{5}{4}x - 1$	4	J			
5.	What is the value of $f(-16)$ if $f(x) = 2x - 16$?								
	A. −48	B. −34	C. –16	D. 0	5	Α			
6.	What is the slop horizontal chang	be of a sliding bo ge of 36 inches?	ard that rises 2 fe	eet for every					
	F. $\frac{1}{18}$	G. $\frac{1}{9}$	H. $\frac{2}{3}$	J. $\frac{2}{9}$	6	H			
7.	Find the slope of and $B(2, -5)$.	Find the slope of the line that passes through the points $A(-3, 1)$ and $B(2, -5)$.							
	A. −6	B. $-\frac{6}{5}$	C. $-\frac{5}{6}$	D. $-\frac{1}{6}$	7	В			
8.	• The cost of gasoline varies directly with the number of gallons of gasoline purchased. If 4 gallons of gasoline cost \$16.80, what is the cost of 15 gallons of gasoline?								
	F. \$4.20	G. \$19.20	H. \$60.00	J. \$63.00	8	J			
9.	The number of Which equation	feet varies direct	ly as the number convert <i>x</i> inches	of inches <i>x</i> . to <i>y</i> feet?					
	A. $y = 36x$	B. $y = 12x$	C. $y = \frac{1}{12}x$	D. $y = \frac{1}{36}x$	9	С			

Test, Form 2B (continued)

10.	vv nat 18 th	ie constant rate of cha	inge be	tweet	i the	qua	innes	in the table?		
		Number of Cell Phones		4	8	12	16			
		Number of Text Message	s (min)	24	48	72	96			
	F. 4	G. 6	H. 2	0		J.	24		10.	G
11.	Which equ	uation has a slope of \cdot	–7 and	a v-i	nterc	ept o	of 8?			
	A. $7x + y = 8$		C. $y = 7x - 8$							
	B. $8y + -$	-7x = 1	D. <i>y</i>	= -	$\frac{7}{8}x$				11.	A
12.	What is the slope of the line $x = -3$?									
	F. −3	G. 0	H. u	ndefi	ned	J.	1		12.	<u> </u>
13.	A hair sale Hair cuts a both servi A. $h+c =$ 22h + B. $24h +$	on serviced 24 custon are \$22 and hair color ces, which system of 846 75c = 75 22h = 846	ners in ring is s equatio C. <i>h</i> 22 D. <i>h</i>	a day \$75. I ons re + c = 2h + + 75	f for a f nor prese = 24 75c = 2 5c = 2	a tota ne of ents t = 84 24	al prof the cu this sit	it of \$846. istomers got uation?		_
	24c + 2	75c = 846	22	2h +	c = s	846			13.	C
14.	The intersection point of the graphs of the following system of equations has an <i>x</i> -coordinate of 5 and a <i>y</i> -coordinate of 2. What information does this intersection point provide? y - x = -3 $x = 2.5y$						Copyright © The McGraw-H			
	F. the solu	ution of the system	H. tł	ne slo	pe of	the	graph	S		L Com
	G. the cor	nstant rate of change	J. tł	ne dej	pend	ent v	variabl	e	14.	F panies,
15.	. What ordered pair is the solution to the system of equations? -4x + y = -10 $y = x + 2$							nc. Permission is gra		
	A. (6, 8)	B. (2, −2)	C. ((), 2)		D.	(4, 6)	1	15.	D ted to r
16.	A \$675 ste The equat after <i>x</i> mo how you c	ereo receiver loses valion $y = 675 - 18x$ reports. Identify and integration use the intercepts	ue at a present erpret to help	rate of ts the the <i>x</i> - you	of abo valu - and grapl	out \$ e of t y-in h the	18 per the rec tercep e equat	r month. ceiver ts. Explain ion.	16.	See Answer Key.
17.	The profit $p(x) = 0.2$ Find the <i>y</i>	s in dollars from a ton $5x - 6.50$, where x rep-intercept and explain	nato sta present what it	and ca s the t repr	an be num esent	moc ber o s in	leled b of toma this pr	y the equation atoes sold. oblem.	17.	(0, -6.5); Sample answer: If the tomato stand does not sell any tomatoes, they will lose \$6.50.

10 What is th £ _1. ngo hat quantities in the table? **دا**ء

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