Algebra I Blizzard Bag # 2

Directions: Complete the following review sheet from Chapters 1 to 6. Be sure to show your work. You will have 2 weeks to complete from the "Snow Day." No Late work will be accepted.

Enjoy!

		Part	1: Multiple Choice		
	Instru	ctions: Fill in the	appropriate circle for the	e best answer	
1. Evaluate $[1 + 4(5)] + [3(9) - 7]$. (Lesson 1-2)					
			D 31		

	ers of a 10% saling to obtain a 15% s		be added to 4 liters of a 40% Lesson 2-9)	
A 20 L	B 4 L	C 2 L	D 48 L	

4. When Nick was traveling in Montreal, the currency exchange rate between th	e
U.S. and Canada could be modeled by $d = 1.02c$ where d represents the numb	er
of U.S. dollars and c represents the number of Canadian dollars. Solve the	
equation for Canadian dollar amounts of \$1, \$2, \$5, and \$20. (Lesson 3-1)	

F {(1, 1.02), (2, 2.04), (5, 5.10), (20, 20.40)} $G \{(1, 1), (2, 2), (5, 5), (20, 20)\}$ $H \{(1, 0.98), (2, 1.96), (5, 4.9), (20, 19.61)\}$

5. If a line passes through
$$(0, -6)$$
 and has a slope of -3 , what is the equation of the line? (Lesson 4-2)
A $y = -6x - 3$ B $x = -6y - 3$ C $y = -3x - 6$ D $x = -3y - 6$

6. If r is the slope of a line, and m is the slope of a line perpendicular to that line, what is the relationship between r and m? (Lesson 4-4) F There is no relationship. $\mathbf{H} r = m$

G
$$r = -m$$
 J $r = -\frac{1}{m}$ **6. (F) (G) (P) (D)**

8. Solve
$$4 - 2r \ge 3(5 - r) + 7(r + 1)$$
. (Lesson 5-3)
 $\mathbf{F}\left\{r \mid r \le -\frac{3}{2}\right\}$ $\mathbf{G}\left\{r \mid r \le -3\right\}$ $\mathbf{H}\left\{r \mid r \le -2\right\}$ $\mathbf{J}\left\{r \mid r \le -\frac{9}{4}\right\}$ 8. (F) (G) (H) (J)

9. Write a compound inequalit	y for the graph.	
(Lesson 5-4)	-4-3-2-1 0 1 2 3 4	
$A x \le -1$ and $x \ge 2$	$C x \leq -1$ or $x > 2$	
B $x < -1$ or $x \ge 2$	$\mathbf{D} x \leq -1$ and $x > 2$	9. 8800

10. Evaluate $x^2 + 5(y - 3)$ when x = -3 and y = 14. (Lesson 1-2) 10. EGBO H 61 F 64 G 58 J 29

Chapter 6

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NAME _____ DATE _____ PERIOD

1. 8 8 0 0

2. 6 6 8 0

3. A B C O

5. ABOD

SCORE

6 Standardized Test Practice (continued)

11. Solve $8x - 5 =$	19. (Lesson 2-3)			
$A\frac{7}{2}$	B -3	C 3	D 6	11. 🛛 🖲 🔿 🔘
12. Solve $-\frac{4}{x} = \frac{6}{9}$. (Lesson 2-3)			
F -6	G 6	H 12	J -12	12. © © 🕀 🕖
			14	-
13. Use the graph t	to determine how	w many solution:	s exist	
for the system -	-4x + 3y = 12 as	x + y = 2. (Les	son 6-1)	7
A 0	C 2			Ĵ
B 1	D infinite	y many		13. 🛞 🖲 🖸 🔘
14. Use elimination	n to solve the sy	stem $2x + y = -8$	and $-2x + 3y = -8$ for x.	
(Lesson 6-3)				
F -2	G 2	H4	J 4	14. E G B Ø
equations? (Les			se to solve which system o	f
A $5x - 7y = 8$		C 3x - 3y		
2x + 6y = 6		-2x + 2	y = -6	
B $3x + 2y = 8$		D $x = 4y +$	- 6	
4x + 3y = 5		3x-2y	= 3	15. A B C D
16. Which graph re	epresents the sol	ution of $ n + 5$	> 1? (Lesson 5-5)	
F	+++++++++++++++++++++++++++++++++++++++	н ++++	⊕ ⊕	
-6-5-4-3-2-	-1012345	-9-8-7	-0-0-4-3-2-1012	
G -1 0 1 2 2	⊕ ⊕	J	-1 0 1 2 3 4 5 6 7	16. © © B Ø
-10123	4 2 0 1 0 3 10			

Part 2: Gridded Response

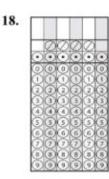
Instructions: Enter your answer by writing each digit of the answer in a column box and then shading in the appropriate circle that corresponds to that entry.

For Questions 17 and 18, determine the value that is missing.

17.

17. The solution set is $\{n \mid n \ge 15\}$ for the inequality $n-7 \ge 1$ (Lesson 5-1) 18. If |a - 8| = 17, then $a = ____ or$ a = -9. (Lesson 2-5)

_	000		-
-	2222	×	100
-	000	2	0
(0)	(0)(0)(0)	(\circ)	(0)
n	000	6	6
31	666	8	6
2	XXX	\approx	×
3)	300	(3)	C)
(4)	(A)(A)(A)		(4)
×	XXX	\geq	\geq
2	999	2	2
6)	666	$^{\odot}$	6
$\widehat{\mathcal{D}}$	$\partial \partial \partial$	(\mathcal{T})	\widehat{G}
\geq	XXXXX	$>\leq$	25



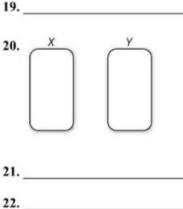
6 Standardized Test Practice (continued)

Part 3: Short Response

Instructions: Write your answers in the space provided.

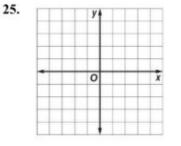
- 19. State whether the percent of change is a percent of increase or a percent of decrease. Then find the percent of change. original: 76; new: 57 (Lesson 2-7)
- **20.** Express the relation $\{(-2, 1), (3, -1), (2, -2), (-2, 0)\}$ as a mapping. (Lesson 1-6)
- 21. Determine whether -6, -3, 0, 3 ... is an arithmetic sequence. If it is, state the common difference. (Lesson 3-4)
- 22. Find the slope of the line that passes through (-2, 0) and (5, -8). (Lesson 3-3)
- 23. The Lopez family drove 165 miles in 3 hours. Write a direct variation equation for the distance driven in any time. How far can the Lopez family drive in 5 hours? (Lesson 3-4)
- 24. Write an equation of a line that passes through (-2, -1) with slope 3. (Lesson 4-3)
- 25. Solve the system of inequalities by graphing. (Lesson 6-6) $2x-v \ge 4$ x - 2y < 4
- 26. Solve 12 + r < 15. Then graph the solution. (Lesson 5-1)
- 27. Define a variable, write a compound inequality, and solve the problem. (Lesson 5-4) Seven less than twice a number is greater than 13 or less than or equal to -5.
- 28. Three times a first number minus a second number equals negative forty. The first number plus twice the second number equals negative four. (Lesson 6-5)
 - a. Define variables and formulate a system of linear equations from this situation.
 - b. What are the numbers?

Chapter 6



23.





26. 2 - 10 1 2 3

27	 	
28a		
28b		

66

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