Algebra I Blizzard Bag # 3

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!

Standa	ardized Tes	t Practice		SCORE
hapters 1–8)				
		Part 1: Multiple Cho	lice	
	Instructions: F	Fill in the appropriate circ	le for the best answer.	
. Simplify $9a^2 +$	$7a + 4a^2 + 2a$. (Lesson	1-3)		
	B $13a^2 + 9a$	C $36a^2 + 14a$	D $16a^2 + 6a$	1. 🛛 🖲 🖾 🔘
. Which is an equ	uation for the line that pa	usses through (-2, 7) and	(3, -8)? (Lesson 4-2)	
F $y = -3x + 1$	•	H $y = -\frac{1}{2}x + 8$		
G $y = -\frac{1}{3}x + \frac{19}{3}$	2	$\mathbf{J} y = -3x + 13$		2. E G H J
3. Solve $24 + x < 1$	18. (Lesson 5-1)			
A $\{x \mid x \le 42\}$		$C\left\{x \mid x < \frac{3}{4}\right\}$		3. 🛛 🖲 🖸 🔘
B $\{x \mid x \ge 6\}$		D $\{x \mid x < -6\}$		3.0000
	ter of a garden is 18 fee e garden? (Lesson 6-3)	t. The garden is 8 feet lor	nger than it is wide.	
F 5 ft	G 40 ft ²	H 36 ft	J 8 ft	4. © © H ()
5. Find (3.2×10^5)	(0.0×10^{-4}) . (Lesso	n 7-4)		
$A 4 \times 10^{0}$	/ ($C 4 \times 10^{1}$		
$\mathbf{B} \ 4 \times 10^8$		D 2.56×10^{10}		5. 🛛 🖲 📿 🔘
5. Find $(3g^2 - g +$	$(2k) + (8k - 5g^2 + 7g).$	(Lesson 8-1)		
$F 11g^2 - 6g + 9$		$H 8g^2 - 8g - 6k$		(
$G - 6g^2 + 9g +$	11k	$J - 2g^2 + 6g + 10k$		6. © ©
	x + 2). (Lesson 8-3)			
A $5x^2 + 4x - 2$		$C 6x^2 - 3x + 2$		7. & B C D
B $6x^2 + x - 2$		D $5x^2 + x + 1$		1.0000
8. Solve $8x^2 - 6x$	= 0. (Lesson 8-5)			
$\mathbf{F}\left\{0,\frac{3}{4}\right\}$	$\mathbf{G}\left\{0,\frac{4}{3}\right\}$	H {6, 8}	$\mathbf{J}\left\{0,\frac{3}{4},2\right\}$	8. © © B Ø
9. Solve $p^2 - 10p$	= -21. (Lesson 8-6)			
A {-3, 10}		C {5}	D {3, 7}	9. 8 8 0 0
). Each football g	ame begins with a kicko	ff. The formula $h = -16t$	2 + 64 <i>t</i> , where <i>h</i> is	
the height in fee	et of the football at t sec	onds, can be used to mod l the football be 48 feet a	lel a kickoff that is in	
(Lesson 8-7)			9	

 F 1 s
 H 1 s, 3 s
 10. (° (G) (P) (P)

 G 2 s
 J 1.5 s, 2.5 s

8 Standa	ardized Tes	st Practice	(continued)	
11. Solve $2(v+3)$	-26 = 7(1 - v). (Lesson	1-2)		
A 10	B 3	C 9	D $\frac{10}{3}$	11. 🛆 🖲 📿 🔘
12. Find the total p				
calculator: \$90				
F \$90.08	G \$98.00	H \$97.20	J \$90.80	12.E G D O
13. Solve $x - 2y = 0$	6 if the domain is {-2,	0, 2}. (Lesson 3-1)		
A $\{(-2, -4), (0, -3), (2, -2)\}$		$C \{(-2, 5), (0, 3), (2, 5)\}$		
	\mathbf{B} {(-2, -2), (3, 0), (2, 4)}		D $\{(2, -2), (3, 0), (4, 2)\}$	
14. A line passes if (Lesson 4-2) F $(y-3) = -3(x$ G $3x - y = 0$		H $(y + 3) = -3(x)$ J $y = -3x$	s not represent the line? - 1)	14. © © O
15. Solve $\frac{n}{7} < -6$. (l	Lesson 5-2)			
A $n > 42$	B <i>n</i> < -42	C <i>n</i> < 42	D $n > -42$	15. A B C D
16. Solve $8 \le 2h + 1$	6 ≤ 22. (Lesson 5-4)			
F $\{h \mid 1 \le h \le 8\}$		H $\{h \mid 4 \le h \le 11\}$		
G { $h \mid 7 \le h \le 14$ }		$\mathbf{J}\left\{h \mid 0 \le h \le 14\right\}$		16. © © H ()
17. Solve $ 2u + 7 $	= 13. (Lesson 5-3)			
	B {-10, -3}	C {3, 10}	D {-3, 10}	17. O © ©
18. Factor $2x^2 + 1^3$	5x + 18. (Lesson 8-8)			
F(2x-3)(x+6)		H $(2x-3)(x-6)$	1	
G(2x+2)(x+1)		J(2x+3)(x+6)		18. E G H O
a (m, . e)(r .	2	0 (2x · 5)(x · 0)		

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.

19. Solve 3(x-2) + 4x = 3(2x-1). (Lesson 8-2) **20.** Solve $9x^2 + 16 = 24x$. (Lesson 8-9)

	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	6	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0

1	0	0	0	
0	0	0	0	0
۲	0	0	0	0
0	0	0	0	0
\odot	0	0	0	0
0	0	0	0	0
٢	(1)	(۲	٢
0	0	0	0	0
0	0	0	6	6
0	0	0	0	0
	0	0	0	
0	0	0	0	0

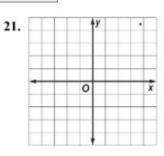
NAME ______ DATE _____ PERIOD _____

8 Standardized Test Practice (continued)

Part 3: Short Response

Instructions: Write your answers in the space provided.

21. Graph y = 2x - 3. (Lesson 3-1)



22. Determine whether the system has <i>no</i> solution, <i>one</i> solution, or <i>infinitely many</i> solutions. (Lesson 6-1) $3x - 4y = -12$	
$x + 4 = \frac{4}{3}y$	22
23. Use elimination to solve the system of equations. (Lesson 6-3) 6x - 3y = 11 6x + 3y = 17	23
24. Simplify $(-2x^2y^3)^4$. (Lesson 7-1)	24
25. Simplify $5(2y^2 + 3y - 2) + 8y(3y^2 + 4y - 2)$. (Lesson 8-2)	25
26. Simplify $(2x + 1)(x^2 - 3x - 4)$. (Lesson 8-3)	26
27. Factor $12a^2b^2 - 16a^2b^3$. (Lesson 8-5)	27
28. Solve $5x^2 - 6x + 1 = 0$. (Lesson 8-7)	28
29. Factor $4x^2 - 49y^2$. (Lesson 8-8)	29
30. The sum of two numbers is 18. The difference between three times the lesser number and the greater number is 10. (Lesson 2-1)	
 a. Define variables and formulate a system of equations from this situation. 	30a
b. What is the greater number?	30b

Glencoe Algebra 1