2 Chapter Test A

Write the sentence as an inequality.	Answers
1. The sum of twice a number <i>n</i> and 8 is at most 25.	1
2. The temperature <i>t</i> is at least 75° F.	2
3. The cost of a ticket <i>t</i> will be no more than \$26.	3
Write an inequality that represents the graph.	4
4. $(-1) 0 1 2 3 4$ 5. $(-1) 0 1 2 3$	5
Solve the inequality. Graph the solution.	6
6. $-9 < m - 6$ 7. $-3z \ge 6 + 3z$	See left.
<++++++++> <++++++++	7
Solve the inequality.	See left.
	8
8. $m \ge 5m - 4$ 9. $\frac{n}{4} + 6 \le x + 8$	9
10. $\frac{1}{2}h + 2 \ge \frac{1}{2}(h + 8)$ 11. $4k - (3 + 3k) > 2$	10
2 2 2	11
12. $4n + 3 < 6n + 8 - 2n$ 13. $10 - 2(3x - 1) > 6x$	+ 10 12
Solve the inequality. Graph the solution.	13
14. $-3y > 9 \text{ or } 2y - 6 > 2$ 15. $-1 < c + 2 < 3$	14
<++++++++> <+++++++++++++++++++++++++++	See left.
Solve the inequality.	15
16. $2a + 1 < 11 \text{ or } a < 3a - 12$ 17. $32 > 16 - 4g > 12$	See left.
18. $ 2x - 6 < 0$ 19. $ 7 - 2y - 8 \ge -3$	16
	17
	18
	19

Chapter Test A (continued) 2

Write	and graph a compound inequality that represents the numbers that	Answ	ers
are n	ot solutions of the inequality represented by the graph shown.	20.	
20.	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	_	See left.
	$\overset{\bullet\leftarrow}{\leftarrow} \overset{\bullet\leftarrow}{\leftarrow} \overset{\bullet\bullet}{\leftarrow} \bullet$	21	
22.	You need to write an essay that has at least 500 words. You have written 285 words so far. Write and solve an inequality that represents the number of words w that you have left to write.	_ 22	See left.
23.	You need at least 30 cubic feet of sand to fill a sand box. Each bag contains 2.5 cubic feet of sand. Write and solve an inequality that represents the number of bags b that you need to buy.	23	
24.	You are planning a school carnival. The equipment costs \$180 to rent. You plan to charge \$4.00 per ticket. You would like to have a profit of at least \$500. Write and solve an inequality that represents the number of tickets <i>t</i> that you need to sell.	- 24	
25.	You want to purchase a calculator for at most \$115. You have saved \$30 so far. You earn \$7.50 per hour at your job. Write and solve an inequality that represents the number of hours h that you need to work.	25	