LESSON 3.7

Name _____ Date _____

Practice B

For use with pages 146–149

Solve the inequality. Then graph its solution.

1. $\frac{1}{6}m > 2$ **2.** $-\frac{1}{8}h \geq 9$ **3.** $-\frac{1}{5}y \leq 29$

4. $\frac{1}{3}p < -17$ **5.** $7g < 42$ **6.** $36 \geq -9n$

7. $15k < -165$ **8.** $-8q \leq 64$ **9.** $9 > -\frac{1}{12}u$

10. $-13c \geq 104$ **11.** $-\frac{1}{7}b < 61$ **12.** $-68 \leq -17j$

13. A tuition bill for school states that Brenda owes \$438. She wants to pay off her bill in 6 months. Write and solve an inequality that gives the least amount she can repay each month.

14. Mark earns \$363 a week. Pedro works for \$8.25 an hour. For how many hours must Pedro work to make as much as or more than Mark?

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15. $34 > 4 - 5x$ **16.** $7y - 12 < 8y + 5$ **17.** $4p - 21 \geq 7$

18. $3(7 - m) \leq 4(2 - m)$ **19.** $12d < -5(51 + d)$ **20.** $13z + 19 \leq 8z - 6$

21. You went to the post office with \$20. You mailed a package for \$3.67. At most, how many \$.37 stamps could you have purchased?

Solve the inequality.

22. $4(x - 12) \geq x + 6$ **23.** $3(11 - 6x) \geq -3$ **24.** $9(6 + x) \leq 2(x - 1)$

25. Find the three greatest consecutive integers whose sum is no more than 26.

26. Tickets for a concert were sold for \$26 in advance and \$31 at the door. Fifty-four tickets were sold in advance. How many tickets need to be sold at the door for an income of at least \$5000?

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