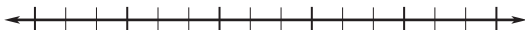


LESSON
5.2**Practice B***For use with the lesson "Solve Inequalities Using Multiplication and Division"***Match the verbal sentence with the inequality. Then solve the inequality.**

- | | |
|--|---------------------------------|
| 1. The product of 3 and x is less than or equal to 18. | A. $\frac{x}{18} \geq 3$ |
| 2. The product of 18 and x is greater than or equal to 3. | B. $18x \geq 3$ |
| 3. The quotient of x and 18 is greater than or equal to 3. | C. $3x \leq 18$ |

Solve the inequality. Graph your solution.

4. $3y \geq 4$



5. $\frac{x}{2} < 6$



6. $\frac{m}{5} > -5$



7. $\frac{c}{-10} \leq -2$



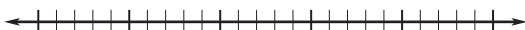
8. $8n > -1$



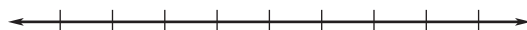
9. $42 < 6z$



10. $-5p \leq 2$



11. $\frac{w}{-4} < 8$



12. $-7a \geq -3$



13. $52 \leq -13x$



14. $0.25x > 18$



15. $-2d < 3$



LESSON
5.2
Practice B
continued
For use with the lesson "Solve Inequalities Using Multiplication and Division"

Write the verbal sentence as an inequality. Then solve the inequality and graph your solution.

16. The product of 12 and y is greater than or equal to 60.



17. The product of 7 and b is less than -35 .



18. The quotient of m and 2 is greater than 23.



19. The quotient of p and 4.5 is less than or equal to 10.



20. **Flower Beds** You are in charge of buying the flowers for the flower beds around your school. You cannot spend over \$80 on flowers. The flowers cost \$10.99 for a flat of flowers. What are the possible numbers of flats of flowers you can buy?
21. **Pavilion Rental** You and three of your friends decide to rent a pavilion at a local park for an end-of-the-school-year party. The group budget is \$80. The group decides to split the cost equally.
- What are the possible amounts of money that each of you can spend?
 - If two more of your friends decide to pitch in for the party, what are the possible amounts of money that each of you can spend if you all split the cost equally?
22. **Waiting Tables** Restaurants typically pay wait staff an hourly wage that is lower than minimum wage. The wait staff is expected to make up the difference in tips. The minimum wage is \$7.25 per hour and a restaurant pays the wait staff \$6.10 per hour.
- If a waitress works an 8-hour shift, write and solve an inequality that gives the total tips t in dollars that the waitress must earn in an 8-hour shift in order to meet or exceed the minimum wage.
 - If the waitress makes \$10.40 in tips during an 8-hour shift, will she meet or exceed the minimum wage? By how much?
 - If the waitress makes \$9.20 in tips during an 8-hour shift, will she meet or exceed the minimum wage? By how much?