

NAME \_\_\_\_\_

DATE \_\_\_\_\_

# Module Test **A**

**Module 6**
**Solve.**

- |                                    |                                |
|------------------------------------|--------------------------------|
| 1. $ x  = 4$ _____                 | 2. $ x  \geq -3$ _____         |
| 3. $ q  \leq 6$ _____              | 4. $ b  = -3$ _____            |
| 5. $ n  < -3$ _____                | 6. $ k - 4  < 3$ _____         |
| 7. $ -9p  \leq 54$ _____           | 8. $ d  \geq 0$ _____          |
| 9. $ m - 2  = 4$ _____             | 10. $ 4 - 2p  = 2$ _____       |
| 11. $\frac{ z }{3} - 6 < 10$ _____ | 12. $ -6y  = 18$ _____         |
| 13. $ j  - 3 = 0$ _____            | 14. $8 = -2 x $ _____          |
| 15. $ r - 5  + 3 = 5$ _____        | 16. $ h - 5  > 7$ _____        |
| 17. $-2 w - 2  + 6 = 2$ _____      | 18. $-8 +  4x - 2  < 10$ _____ |
| 19. $8 \leq  2h + 2 $ _____        | 20. $ 6p - 2  > 0$ _____       |
| 21. $\frac{ z }{4} - 3 > -1$ _____ |                                |

22. At a commercial bakery, a machine scoops cookie dough from a mixing bowl and moves it to a baking tray. To bake properly, cookies must be formed from scoops of dough that do not vary by more than 3 grams from the ideal size of 29 grams. What are the maximum and minimum weights of an acceptable scoop of dough?

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23. A pizza delivery service asks that each driver record the time that elapsed between the telephone order and the delivery to the customer. Store managers compile the data and must report any elapsed time that varies by more than 7 minutes from the ideal of 30 minutes.

- A. Write an absolute value equation or inequality to describe the times which the manager must report.

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B. Explain what the variable represents in your answer to A.

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C. Solve the inequality. Show all steps.

D. Graph the solution you found in part C.

E. What inequality shows all the delivery times for which a driver does *not* have to file a report? Explain the inequality in the context of a number line.

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