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## Solving Inequalities by Multiplication and Division

### 6.2 Practice 1

Match each inequality with its corresponding statement.

1. $-4 n \geq 5$
a. Negative four times a number is less than five
2. $\frac{4}{5} n>5$
b. Four fifths of a number is no more than five
3. $4 n \leq 5 \quad$ c. Four times a number is fewer than five
4. $\quad \frac{4}{5} n \leq 5$
d. Negative four times a number is no less than five
5. $4 n<5$
e. Four times a number is at most five
6. $-4 n<5$
f. Four fifths a number is more than five

Solve each inequality. Then check your solution.
7. $-\frac{a}{5}<-14$
8. $-13 h \leq 52$
9. $\frac{s}{16} \geq-6$
10. $39>13 p$
11. $\frac{2}{3} n>-12$
12. $-\frac{5}{9} t<25$
13. $-\frac{3}{5} m \leq-6$
14. $\frac{10}{3} k \geq-10$
15. $-3 b \leq 0.75$
16. $-0.9 c>-9$
17. $0.1 x \geq-4$
18. $-2.3<\frac{j}{4}$
19. $-15 y<3$
20. $2.6 v \geq-20.8$
21. $0>-0.5 u$
22. $\frac{7}{8} f \leq-1$

### 6.2 Practice 1

## Define a variable, write an inequality, and solve each problem. Then check your solution.

23. Negative three times a number is at least 57.
24. Two thirds of a number is no more than -10 .
25. Negative three fifths of a number is less than -6 .
26. FLOODING A river is rising at a rate of 3 inches per hour. If the river rises more than 2 feet, it will exceed flood stages. How long can the river rise at this rate without exceeding flood stage?
27. SALES Pet Supplies makes a profit of $\$ 5.50$ per bag on its line of natural dog food. If the store wants to make a profit of no less than $\$ 5225$, how many bags of dog food does it need to sell?
