Name:		_Date:	Period:
Solving Inequalities by Multiplication and Division Worksheet 352			
Match each inequality with its corresponding statement.			
<b>1.</b> $-4n \ge 5$	<b>a.</b> Negative four times a nur	nber is less than five	
2. $\frac{4}{5}n > 5$	<b>b.</b> Four fifths of a number is	s no more than five	
<b>3.</b> $4n \le 5$	<b>c.</b> Four times a number is fe	wer than five	
<b>4.</b> $\frac{4}{5}n \le 5$	<b>d.</b> Negative four times a number is no less than five		
5. $4n < 5$	e. Four times a number is at most five		
<b>6.</b> $-4n < 5$	<b>f.</b> Four fifths a number is mo	ore than five	
Solve each inequality. Then check your solution.			
<b>7.</b> $-\frac{a}{5} < -14$	<b>8.</b> $-13h \le 52$	<b>9.</b> $\frac{s}{16} \ge -6$	<b>10.</b> 39 > 13 <i>p</i>
<b>11.</b> $\frac{2}{3}n > -12$	<b>12.</b> $-\frac{5}{9}t < 25$	<b>13.</b> $-\frac{3}{5}m \le -6$	<b>14.</b> $\frac{10}{3}k \ge -10$
<b>15.</b> $-3b \le 0.75$	<b>16.</b> -0.9 <i>c</i> > -9	<b>17.</b> 0.1 <i>x</i> ≥ −4	<b>18.</b> $-2.3 < \frac{j}{4}$
<b>19.</b> −15 <i>y</i> < 3	<b>20.</b> $2.6v \ge -20.8$	<b>21.</b> $0 > -0.5u$	<b>22.</b> $\frac{7}{8}f \le -1$

## 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?