**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_**

**Solving Inequalities by Multiplication and Division Worksheet 351**

**Match each inequality with its corresponding statement.**

**1.** 3*n* < 9 **a.** Three times a number is at most nine

**2.** *n* ≥ 9  **b.** One third of a number is no more than nine

**3.** 3*n* ≤ 9 **c.** Negative three times a number is more than nine

**4.** –3*n* > 9 **d.** Three times a number is less than nine

**5.** *n* ≤ 9 **e.** Negative three times a number is at least nine

**6.** –3*n* ≥ 9 **f.** One third of a number is greater than or equal to nine

**Solve each inequality. Then check your solution.**

**7.** 14*g* > 56 **8.** 11*w* ≤ 77 **9.** 20*b* ≥ –120 **10.** –8*r* < 16

**11.** –15*p* ≤ –90 **12.** < 9 **13.** ≥ –15 **14.** – > –9

**15.** – ≥ 6 **16.** 5*z* < –90 **17.** –13*m* > –26 **18.** ≤ –17

**19.** –*y* < 36 **20.** –16*c* ≥ –224 **21.** – ≤ 2  **22.** 12 >

**Define a variable, write an inequality, and solve each problem. The check your solution.**

**23.** Four times a number greater than –48.

**24.** One eighth of a number is less than or equal to 3.

**25.** Negative twelve times a number is no more than 84.

**26.** Negative one sixth of a number is less than –9.

**27.** Eight times a number is at least 16.