Intro to Inequalities Problem-Solving Practice

1. SAFETY The speed limit on some Georgia Interstates is **2.** CAMERAS The cost of a camera at different stores is 70 miles per hour. If a driver travels faster than 70 shown in the table. Kayla doesn't want to spend more miles per hour, he or she receives a ticket. Use the than \$400 on a camera. Use the inequality c < \$400, inequality s > 70, where *s* represents the speed of cars where c represents the cost of a camera to determine on the interstate to determine which cars get a ticket. which stores she could buy from. Car Speed Store Cost 1 68 Camera Castle \$389.50 2 76 **Digital Dreams** \$401.75 3 72 Photo Palace \$422.85 4 65 **3.** CONCERT The number of people who attended each 4. FLOWERS The florist kept track of the flowers she sold theater show at the local arts club is shown in the table. on Valentine's Day. If she sells at least 50 flowers, she If less than 175 people attend, then the arts club did not receives a bonus. Use the inequality $f \ge 50$, where f make enough to cover costs. Use the inequality p < prepresents the number of flowers sold to determine 175, where *p* represents the number of people present, which flowers she sold enough of. to determine for which show they did not make enough money. Flower Number Sold 112 Roses **People Present** Show Tulips 68 Romeo and Juliet 176 43 Carnations Hamlet 164 Macbeth 208 **5. RIDES** The roller coasters at the theme park require **6. BAKE SALE** The school bake sale results are given in children to be over 48 inches tall to ride. Use the the table. If more than 20 of a baked good are sold, then inequality $h \le 48$, where h represents each child's more baked goods are made. Use the inequality b > 20, height to determine which children can not ride roller where *b* represents the number of goods sold to coasters. determine which baked goods need to be made. Child Height (in.) **Baked Goods** Number Sold Jolon 47 Cakes 10 Tandy 49 Cookies 45 48 Cruz Cupcakes 38 50 Flo Pies 15