Homework Practice

NAME

F

Solve One-Step Inequalities

ANSWERS

Solve each inequality. Graph the solution on a number line.



- 17. TRANSPORTATION A certain minivan has a maximum carrying capacity of 1,200 pounds. If the luggage weighs 150 pounds, what is the maximum weight allowable for 1200 2150+p passengers? P+150 5 1200 ov
- 18. DISCOUNTS To qualify for a store discount, Clay's soccer team must spend at least \$560 for new jerseys. The team needs 20 jerseys. Write and solve an inequality to represent how much the team should spend on each jersey to qualify for the j= cost jersey discount.

Ger Connected) For more examples, go to glencoe.com.

Chapter 8

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Course 1

20j≥\$560

NAME ANSWERS

8=2

F

Problem-Solving Practice

Solve One-Step Inequalities

| 1. ENTERTAINMENT Gabe went to the amusement park with \$40 to spend. His ticket cost \$26.50. Write and solve an inequality to show how much he might spend on souvenirs and snacks. $f = MONLY \ CAN \ spend.$ $f + \frac{26.50 \leq 40}{-26.50} - 26.50$ $f \leq \frac{13.50}{-26.50}$ | 2. AQUARIUM Leeza's aquarium holds 55 gallons of water. She is filling the tank and has already put in 22 gallons. Write and solve an inequality to find out how many more gallons she might put in the tank. g = Sg 11 on S $g + 22 \leq 55$ $g + 22 \leq 55$ $g \leq 33$ |
|---|---|
| 3. CARS Many mechanics advise people not to drive their cars more than 5,000 miles between oil changes. Kaci has driven her car 3,450 miles since the last sil change. Write and advised | 4. FURNITURE Dan builds furniture. The table shows his minimum production times. |
| inequality to find out how many more miles she might drive before having her | Furniture Minimum Furniture Production Times (hr) |
| oil changed again. | Child's table (2) |
| M= miles driven | Bench 1 |
| | Dining table 4 |
| 11 + 3450 < 5000 | China cabinet 7 |
| -3450 -3450 $m \leq 1550$ | Dan builds children's tables on Tuesday. He works 10 hours. Write and solve an inequality to determine how many children's tables Dan can build that day. $\pm \pm abc 5$ |
| | $\frac{2+4}{2} \le \frac{10}{2} + 45$ |
| 5. PIANO Drew practices piano at least 45 minutes per day. He has already practiced 18 minutes. Write and solve an inequality to determine how much longer he will be practicing. P = Prachice $P + 18 \ge 45$ -18 - 18 $P \ge 27$ | 6. SPORTS At baseball spring training, the coach throws at least 30 ground balls to each outfielder. He has thrown 16 ground balls to the right fielder. Write and solve an inequality to determine how many more balls he can be expected to throw to the right fielder. $g = Srcon(1 \text{ box } 11 \text{ s})$ g + 16 = 30 |
| minutes. | At least 14 more groundlers |