

Name _____

4-5B Lesson Master**Questions on SPUR Objectives**

See pages 245–249 for objectives.

SKILLS Objective B

In 1–4, solve and check.

1. $m + 6 > -m + 2$

2. $6p - 10 \leq 2p + 3$

3. $-6(0.5r + 2.5) + 3 \geq -2r$

4. $-2(a - 10) < 6(a - 2)$

In 5–8, solve and graph on a number line.

5. $4(q + 3) > 10q$



6. $-6\left(t - \frac{1}{2}\right) \leq 3(t + 7)$



7. $4(2n - 1.5) \leq 2(n - 1.5)$



8. $-5(2b + 1) > -(b - 3) - 2$

**PROPERTIES** Objective F

9. Fill in what was done to solve the inequality.

$5x - 5 > -6x + 13$

$21x - 5 > 13$

$21x > 18$

$x > \frac{18}{21}$

$x > \frac{6}{7}$

Name _____

4-5B**page 2**

10. Consider the inequality $50z + 30 < 68 - 43z$.

a. Solve it by first adding $43z$ to each side. _____

b. Solve it by first adding $-50z$ to each side. _____

c. Compare your results for a and b. What does this suggest?

USES Objective H

11. Delishus Doings caters events a flat rate of \$500 plus \$100 per hour after the first 2 hours. Cathy's Catering has a flat rate of \$620 per event plus \$70 per hour after the first 3 hours. For how many hours of an event would hiring Cathy's Catering cost no more than hiring Delishus Doings? _____

12. Joe got took out student loans during college, and by the end of college had \$36,000 of debt, interest free. Joe repaid the debt at \$8,000 per year. After his loan was paid off, he began saving \$8,000 a year. Joe's college friend Steve had no college debt and started saving \$4,000 per year after college. (In both cases, ignore savings interest.)

a. In how many years will Joe be out of debt? _____

b. Write expressions for the amount of money each man has saved. _____

c. Write and solve an inequality to find when Joe will have saved more money than Steve. _____
