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7.6.17 Homework Set

Name $\qquad$
Date $\qquad$

1. 28 students travel on a field trip. They bring a van that can seat 12 students. Elena and Kiran's teacher asks parents to drive cars that seat 3 children each to transport the rest of the students. Elena wonders if she should use the inequality $12+3 n>$ 28 or $12+3 n \geq 28$ to figure out how many cars are needed. Kiran doesn't think it matters in this case. Do you agree with Kiran? Explain your reasoning.
2. Select all the inequalities that have the same graph as $x<4$. (from Unit 6, Lesson 13)
a. $x<2$
b. $x+6<10$
c. $5 x<20$
d. $x-2>2$
e. $x<8$
3. Solve each equation. Check your solution. (from Unit 6, Lesson 9)
A. $5(n-4)=-60$
B. $7 p-8=-22$
4. A. Simplify the expression $3 m+5-6 m+2$
B. Simplify the expression $5(n-4)$
C. Factor the expression $36 a-16$
