## Lesson 7.3 Skills Practice

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Name \_\_\_\_\_ Date \_\_\_\_\_

## Planning a Graduation Party

**Solving Two-Step Equations** 

**Vocabulary** – Give an example of a two-step equation and describe how to solve it.

## **Problem Set**

Write a sentence to describe how to apply inverse operations to solve each equation. Then, solve each two-step equation. SHOW YOUR WORK. CHECK YOUR WORK.

	4x+12=24 First subtract 12 from each side, then divide each side by 4. 4x+12=24 4x+12-12=24-12 4x=12 4x/4=12/4 x=3 4(3)+12=24 12+12=24 24=24	2.	25 - 8x = -15
3.	13 - x/7 = 6	4.	-5x -12 = 18

5. x/9 +19 = 41	6. 42 = -7x + 35
78 = 2x - 14	8. 21 = 36 - x/30
919 = 35 + 9x	10. 11x + 13 = -9

verify your solution.11. Ms. Moderelli charges her piano students \$40	12. The Sunshine Nursery offers a spring flowe
per lesson plus a semester recital fee of \$55. How many lessons did Jerry take if he paid \$695 for lessons this semester? Let $p = number of lessons$ 40p + 55 = 695 40p + 55 = 695 - 55 40p = 640 40p/40 = 640/40 p = 16 40(16) + 55 = 695 640 + 55 = 695 695 = 695 Jerry took 16 lessons.	deal. If a customer purchases at least one f of 6 annuals, they will receive 3 free perennials. How many flats of annuals mus you buy to get a total of 21 plants?
13. The student council ordered 1000 pencils embossed with the school name to give to honor roll students. If they give each honor roll student two pencils and they have 840 pencils left after the first quarter, how many students are on the honor roll for the first quarter?	14. Craig and four of his friends had a car wash earn some extra money. They split the profi Craig got an extra \$18 to repay his parents the car wash supplies. If Craig got \$32, how much total money did they split among themselves?
<ul> <li>15. Javier has a collection of 125 comic books. He gives each of his 3 friends the same number of comic books and keeps his favorite 38 comic books for himself. How many comic books did he give to each of his friends?</li> </ul>	16. Tyler is planning a party at a restaurant. There is a flat fee of \$250 to reserve the restaurant for the evening and a charge of \$20 per person for food and drink. If Tyler h \$500 to spend, what is the maximum numb of people that can attend the party?