3-3B Lesson Master	Questions on SPUR Objectives See pages 178–179 for objectives.
PROPERTIES Objective C In 1-3, refer to the balance scale.	
1. What equation is modeled by the scale?	
2. What two steps can be done with the weights, on each side of the scale, to find the value of <i>x</i> ?	
3 . What is the value of <i>x</i> ?	
In 4–6, refer to the equation $4x + 1 = 9$.	
4. Create a balance scale to represent the equation.	
5. What two steps can be done with the weights, on each side of the scale, to find the value of <i>x</i> ?	
6. What is the value of <i>x</i> ?	
In 7-10, a pair of equations is given. Tell what was done to each s first equation to arrive at the second equation.	side of the
7. $-5x + 6 = 9$	
-5x = 3	
8. $-10 - 3x = 23$	
-3x = 33	
9. $1.2x + 5.3 = 11.3$	
1.2x = 6	
10. $\frac{7}{8}x = 56$	
<i>x</i> = 64	

Copyright © Wright Group/McGraw-Hill

Name

3-3B

page 2

In 11 and 12, Bernadette solved the equation $\frac{3}{5}x - 2 = 7$.

$$\frac{3}{5}x - 2 = 7$$

Step 1: $\frac{3}{5}x = 9$
Step 2: $x = \frac{27}{5}$

- 11. Which step did her teacher mark incorrect? Why?
- **12**. Solve the equation again after correcting Bernadette's mistake to find the value of *x*.

In 13 and 14, tell what was done in each step to solve the equation.

13.
$$\frac{2}{3}x + 4 = -2$$

 $\frac{2}{3}x = -6$
 $x = -9$
14. $-2x + 7 = -3$
 $-2x = -10$
 $x = 5$
 $x = 5$

In 15–20, solve each equation. Show your steps.

15. 5 - 1.2x = -5.8 **16.** 6x + 82 = -32

17.
$$3x - \frac{3}{4} = 3\frac{3}{4}$$

18. $0.5x + 1.6 = 0.35$
19. $25 + \frac{2}{5}x = -3$
20. $-21x + 30 = -96$

Copyright © Wright Group/McGraw-Hill