Name

3-8A Lesson Master

SKILLS Objective B

In 1–3, solve by clearing fractions or decimals.

1. $0.07n + 4.38 = 13.55$

2. $5 = -\frac{1}{3} + \frac{3}{7}y$

3. $\frac{5a}{12} - \frac{a}{3} = 12$

_____   _____   _____

In 4–6, solve by clearing fractions or decimals.

4. $\frac{d}{7} + \frac{3d}{7} < \frac{5}{3}$

5. $\frac{1}{3}(\frac{n}{4} + 4) \geq 9$

6. $0.02(5s - 28) < 9.8$

_____   _____   _____

PROPERTIES Objective C

7. **a.** By what number can you multiply each side of the equation
$\frac{2}{13}a - \frac{6}{7} = \frac{1}{5}$ to clear the fractions?   _____

b. Solve the equation in Part a.   _____

8. What has been done to both sides of $\frac{5}{9} = \frac{17}{11}x$ to get $55 = 153x$?   _____

USES Objective D

9. Clint has two beakers of saline solution. One beaker contains 60% salt while the other beaker contains 40% salt. Clint needs to combine the contents of the two beakers to make three liters with 46% salt. Let x be the amount of 60% solution used and $(3 - x)$ be the amount of 40% solution used.

a. Write an equation that represents this situation.   _____

b. How much of the 60% solution is needed to make the 46% solution?   _____

10. Suppose Mamie, Grace, and Alice went out for pizza. Mamie ate $\frac{1}{6}$ of the pieces, Grace and Alice each ate $\frac{1}{3}$ of the pieces, and there were 4 pieces left.

a. How many total pieces were there originally?   _____

b. How many pieces did each of the girls eat?   _____