

Name

3-8A

Lesson Master

Questions on SPUR Objectives
See pages 178–179 for objectives.

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. $\frac{5a}{12} - \frac{a}{3} = 12$
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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. $0.02(5s - 28) < 9.8$
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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?
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- b. Solve the equation in Part a.
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8. What has been done to both sides of $\frac{5}{9} = \frac{17}{11}x$ to get $55 = 153x$?
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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.
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- b. How much of the 60% solution is needed to make the 46% solution?
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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?
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- b. How many pieces did each of the girls eat?
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