

Name _____

3-8B Lesson Master

Questions on SPUR Objectives

See pages 178–179 for objectives.

SKILLS Objective B

In 1–8, solve by clearing the fractions or decimals.

1. $1.05x + 3.57 = 0.42$

2. $5.01x - 1.1 = -53.204$

3. $-\frac{2}{5}m + \frac{1}{6} = \frac{3}{2}$

4. $-3 = \frac{6}{7}n - \frac{2}{3}n$

5. $3.15 - 3.2p < 4.59$

6. $\frac{3}{8}(2s - 7) > \frac{7}{16}$

7. $-9.1r + 7.21 + 12r \geq -26.285$

8. $\frac{5}{6} \geq \frac{1}{4}\left(\frac{2}{3}w + 1\right) - \frac{1}{12}$

PROPERTIES Objective C

In 9 and 10, use $\frac{3}{11}x - \frac{1}{3} = \frac{5}{6}$ to answer the questions.

9. What is the smallest number you can multiply each side of the equation by to clear the fractions?

10. Use your answer to Question 9 to solve the equation for x .

11. What has been done to $0.701m = -5.5$ to get $701m = -5,500$?

USES Objective D

In 12–18, write and solve an equation or inequality to describe the situation and answer the question.

Mallory has saved x half-dollars. She has four times as many quarters as half-dollars. The total she has saved is \$61.50.

12. How many half-dollars does she have?

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13. How many quarters does she have?

Tony, Dominic, and Joseph purchased a party submarine sandwich. Tony ate $\frac{1}{4}$ of the pieces; Dominic and Joseph each ate $\frac{1}{6}$ of the pieces. There were 5 pieces left.

14. How many total pieces were there originally?

15. How many pieces did each of the boys eat?

A serving of cereal with milk provides $x\%$ of the daily allowance of vitamin C. A serving of orange juice provides 5 times as much vitamin C as the cereal with milk. If the two items are eaten together, they provide 144% of the daily allowance of vitamin C.

16. What percent of the daily allowance of vitamin C does the cereal with milk provide?

17. What percent of the daily allowance of vitamin C does the orange juice provide?

18. A multivitamin provides 417% of the daily allowance of vitamin C. Your answer to Question 17 represents the percent of vitamin C in one serving of orange juice. What is the least number of servings, s , of orange juice you must drink to get at least the same amount of vitamin C found in the multivitamin?
