

Name _____

13-7A Lesson Master**Questions on SPUR Objectives**

See pages 833–835 for objectives.

PROPERTIES Objective F

In 1–9, tell whether the number is rational or irrational.

1. $\frac{2}{3}$

2. $\sqrt{2}$

3. $1.\bar{3}$

4. 12

5. π

6. $\sqrt{52}$

7. $\sqrt{5}$

8. 8.1

9. $2.\bar{73}$

In 10–12, write the number as a simple fraction.

10. $21\frac{48}{61}$ _____

11. $5.8\bar{67}$ _____

12. $13.\bar{521}$ _____

13. Determine whether the solutions of the equation $4x^2 - 1 = 0$ are rational or irrational.

14. Is it possible for two irrational numbers to have a quotient that is a rational number? Explain why or why not.

REPRESENTATIONS Objective I15. The area of a circle is 72π square inches.

a. What is the exact length of its radius?

a. _____

b. Is this number rational or irrational?

b. _____

16. a. In the triangle at the right, find the value of x .

b. Is x rational or irrational?

