

Name _____

LESSON MASTER



Questions on SPUR Objectives

Vocabulary

1. Explain what a *variable* is.

In 2–8, write the correct symbol for each mathematical verb.

2. is less than

3. is approximately equal to

4. is greater than or equal to

5. is equal to

6. is less than or equal to

7. is not equal to

8. is greater than

9. Tell whether or not the given sentence is an open sentence. Write *yes* or *no*.

a. $2.5g$ _____

b. $6\frac{1}{2} < 6\frac{5}{8}$ _____

c. $m^2 = 81$ _____

d. $24 < 8A$ _____

e. $y \geq 14$ _____

f. $0.1855 - w$ _____

10. Write an inequality comparing $\frac{6}{11}$ and $\frac{1}{2}$

- a. using the symbol " $>$."

- b. using the symbol " $<$."

11. Write an inequality comparing $\frac{3}{4}$ and $\frac{5}{6}$

- a. using the symbol " \geq ."

- b. using the symbol " \leq ."

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In 12–14, let r = Ruth's math test score. Write a sentence in words for each algebraic sentence.

12. $r \geq 84$ _____

13. $r \neq 84$ _____

14. $r < 100$ _____

15. Give a number that is a solution to the sentence in Question 14. _____

16. Let A = the land area of Rhode Island in square miles. Write in inequality to describe the following statement:
The land area of Rhode Island is less than 2,000 square miles. _____

Skills Objective A: Find solutions to open sentences using trial and error.

17. Which of the numbers 3, 6, and 10 are solutions of $4 + n = 10$? _____

18. Which of the numbers 4, 5, and 8 are solutions of $9 - b = 4 \cdot b - 11$? _____

19. Which of the numbers 1, 4, and 7 are solutions of $2 \cdot m \geq 8$? _____

20. Which of the numbers 8, 15, and 20 are solutions of $\frac{h}{4} < 8$? _____

In 21 and 22, give three solutions to each open sentence.

21. $u > 4.8$ _____

22. $v \leq 13.5$ _____

In 23 and 24, give both solutions to the equation.

23. $a^2 = 64$ _____

24. $d^2 = 1$ _____

25. Give an example of an inequality for which 6 is a solution. _____