

Module 4 Topic G Lesson 23-25 Student Copy

Exercises

Lesson 23

Substitute the indicated value into the variable, and state (in a complete sentence) whether the resulting number sentence is true or false. If true, find a value that would result in a false number sentence. If false, find a value that would result in a true number sentence.

1. $4 + x = 12$. Substitute 8 for x .

2. $3g > 15$. Substitute $4\frac{1}{2}$ for g .

3. $\frac{f}{4} < 2$. Substitute 8 for f .

Lesson 24

Complete the following problems in pairs. State when the following equations and inequalities will be true and when they will be false.

1. $15c > 45$

2. $25 = d - 10$

3. $56 \geq 2e$

Identify all equality and inequality signs that can be placed into the blank to make a true number sentence.

8. $15 + 9 \underline{\hspace{1cm}} 24$

9. $8 \cdot 7 \underline{\hspace{1cm}} 50$

Lesson 25

Identify a value for the variable that would make each equation or inequality into a true number sentence. Is this the only possible answer? State when the equation or inequality is true using equality and inequality symbols.

a. $3 + g = 15$

b. $30 > 2d$

c. $\frac{15}{f} < 5$

Homework

Problem Set

Substitute the value into the variable, and state (in a complete sentence) whether the resulting number sentence is true or false. If true, find a value that would result in a false number sentence. If false, find a value that would result in a true number sentence.

1. $3\frac{5}{6} = 1\frac{2}{3} + h$. Substitute $2\frac{1}{6}$ for h .

2. $39 > 156g$. Substitute $\frac{1}{4}$ for g .

State when the following equations and inequalities will be true and when they will be false.

1. $36 = 9k$

2. $67 > f - 15$

3. $\frac{v}{9} = 3$

Find the solution to each equation.

1. $4^3 = y$

2. $8a = 24$

3. $32 = g - 4$