Lesson 23: True and False Number Sentences

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 $h$.

1. $39>156g$. Substitute$ \frac{1}{4} $for$ g$.
2. $\frac{f}{4}\leq 3$. $ $Substitute $12$ for $f$.
3. $121-98\geq r$. Substitute $23$ for $r$.
4. $\frac{54}{q}=6$. Substitute $10$ for $q$.

Create a number sentence using the given variable and symbol. The number sentence you write must be true for the given value of the variable.

1. Variable: $d$ Symbol: $ \geq $ The sentence is true when $5$ is substituted for $d$.
2. Variable: $ y$ Symbol:$ \ne $ The sentence is true when $10 $is substituted for$ y$.
3. Variable: $ k$ Symbol: $ <$ The sentence is true when $8 $is substituted for$ k$.
4. Variable: $ a$ Symbol: $ \leq $ The sentence is true when $9 $is substituted for$ a$.