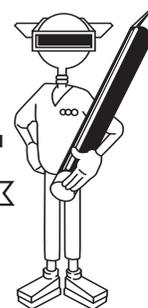




COURSE: **MSC IV**
 MODULE 1: **Fractions**
 UNIT 6: **Subtracting Fractions**

**Student
 Logbook**



Subtracting with Unlike Denominators

As you work through the tutorial, complete the following statements and questions.

1. What operation is the inverse of addition? _____
2. To subtract $6\frac{2}{3}$ from $16\frac{4}{9}$, the fractions in each mixed number need to be rewritten with the least common denominator of _____.
3. To find the length of side b of the stage, Dijit and Dreadly need to calculate $16\frac{4}{9} - 6\frac{6}{9}$. How is $16\frac{4}{9}$ rewritten using regrouping in order to subtract the fractional parts of both fractions? _____
4. Show the steps used to find the length of side g .

Step 1: $9\frac{3}{4} - 3\frac{9}{20}$

Step 2: _____

Step 3: _____

Step 4: _____

5. Explain how Dijit and Dreadly found the area of the smaller rectangular region of the stage. _____
6. What expression is used to find the area of the larger rectangular region of the stage? _____
7. What two numbers are added together to find the total area of the stage? _____ and _____
8. What is the total area in square yards of the stage? _____

Key Words:

Fraction
 Subtraction
 Mixed number
 Area
 Regrouping

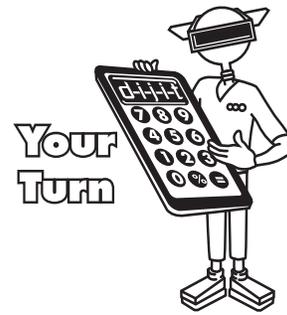
Learning Objectives:

- Subtracting mixed numbers with unlike denominators
- Calculating the area of a polygonal region



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Subtracting with Unlike Denominators



1. Solve the following problems and express your answers in simplest forms.

a. $6\frac{2}{3} - 1\frac{1}{4} =$ _____

b. $3\frac{4}{9} - 2\frac{1}{3} =$ _____

c. $1\frac{4}{5} - \frac{9}{10} =$ _____

d. $15\frac{6}{7} - 13\frac{2}{3} =$ _____

e. $21\frac{6}{13} - 19\frac{10}{11} =$ _____

2. A carpenter cuts a piece of wood $2\frac{3}{4}$ feet long from a board that measures $9\frac{5}{8}$ feet. How long is the remaining part of the board expressed as a mixed number? _____
3. A $7\frac{1}{4}$ -foot piece of rope is cut into two unequal parts. One part is 3 feet long. How long is the other part of the rope?

4. The area of the hexagon ABCDEF is $9\frac{2}{3}$ square feet. The area of the shaded region BCDE is $5\frac{1}{4}$ square feet. What is the area in square feet of the unshaded region ABEF? _____

