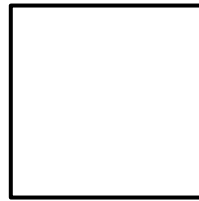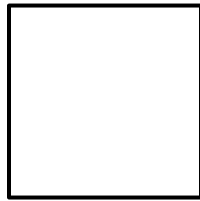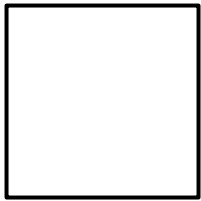Name _____     Date _____

1. **Estimate** to mark the points 0 and 1 above the number line $\frac{0}{6}, \frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}, \frac{6}{6}$ below. Use the squares below to represent fractions equivalent to 1 sixth using both arrays and equations.

$$\frac{1}{6} = \frac{1 \times 2}{6 \times 2} = \frac{3}{9}$$

![Common Core] **Lesson 1:** Making Equivalent Fractions with the Number Line, Area Model, and with Numbers
**Date:** 11/28/12

engage<sup>ny</sup>   **3.A.14**

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Name _____    Date _____

1) Show each expression on a number line.  Solve.

   a)  $\frac{5}{5} + \frac{2}{5}$

   b)  $\frac{6}{3} + \frac{2}{3}$

2) Express each fraction as the sum of two or three equal fractional parts.  Rewrite each as a multiplication equation.  Show letter b) on a number line.

   a)  $\frac{6}{9}$

   b)  $\frac{15}{4}$

Name _____     Date _____

Solve by drawing the rectangular fraction model.

1. $\dfrac{1}{2} + \dfrac{1}{5} =$

2. In one hour, Ed used 2/5 of the time to complete his homework and 1/4 of the time to check his email. How much time did he spend completing homework and checking email?  Write your answer as a fraction.  (Bonus:  write the answer in minutes.)

Name _____          Date _____

Draw a model to help solve the following problems.  Write your answer as a mixed number.

1.  $\dfrac{5}{6} + \dfrac{1}{4} =$

2.  Patrick drank 3/4 liter of water Monday before going jogging.  He drank 4/5 liter of water after his jog.  How much water did Patrick drink altogether?  Write your answer as a mixed number.

Name _____     Date _____

Directions:  Draw a model, write a subtraction sentence with like units, and circle your answer for each subtraction problem.

1.  $\dfrac{1}{2} - \dfrac{1}{7} =$

2.  $\dfrac{3}{5} - \dfrac{1}{2} =$

**COMMON CORE**

**Lesson 5:**   Subtract Fractions with Unlike Units Using the Strategy of Creating
Equivalent Fractions
**Date:**   11/28/12

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3.B.42

Name _____          Date _____

For the following problems, draw a picture using the rectangular fraction model and write the answer. Simplify your answer.

1.  $1\dfrac{1}{5} - \dfrac{1}{2} =$

2.  $1\dfrac{1}{3} - \dfrac{5}{6} =$

Name _____          Date _____

Solve the word problem using the RDW strategy.  Show all your work.

1.  Mr. Pham mowed 2/7 of a lawn.  His son mowed 1/4 of it.  Who mowed the most?  How much of the lawn still needs to be mowed?

Name _____     Date _____

Directions:  Add or Subtract.

1)  $5 + 1\frac{7}{8} =$

2)  $3 - 1\frac{3}{4} =$

3)  $7\frac{3}{8} + 4 =$

4)  $4 - 2\frac{3}{7} =$

**Lesson 8:**  Add Fractions to and Subtract Fractions from Whole Numbers
Using Equivalence and the Number Line as Strategies
**Date:**  11/28/12

engage^ny    **3.C.15**

Name _____    Date _____

Make like units, then add.

1.  $\frac{1}{6} + \frac{3}{4} =$

2.  $1\frac{1}{2} + \frac{2}{5} =$

Name _____      Date _____

Solve the problems.

1)   $3\frac{1}{2} + 1\frac{1}{3} =$

2)   $4\frac{5}{7} + 3\frac{3}{4} =$

Name _____          Date _____

Solve the problems.

1)  $5\frac{1}{2} - 1\frac{1}{3} =$

2)  $8\frac{3}{4} - 5\frac{5}{6} =$

Name _____     Date _____

Circle the correct answer.

1)  $\dfrac{1}{2} + \dfrac{5}{12}$          greater than 1          less than 1

2)  $2\dfrac{7}{8} + 1\dfrac{7}{9}$          greater than 1          less than 1

3)  $1\dfrac{1}{12} - \dfrac{7}{10}$          greater than $\dfrac{1}{2}$          less than

4)  $\dfrac{3}{7} + \dfrac{1}{8}$          greater than $\dfrac{1}{2}$          less than $\dfrac{1}{2}$

5)  Use > , < , or = to make the following statement true.

   $4\dfrac{4}{5} + 3\dfrac{2}{3}$ _____ $8\dfrac{1}{2}$

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**Lesson 13:**  Use Fraction Number Sense to Assess Reasonableness of
Addition and Subtraction Equations
**Date:**  11/28/12

engage<sup>ny</sup>     **3.D.14**

Name _____     Date _____

Fill in the blank to make the statement true.

1)  $1\frac{3}{4} + \frac{1}{6} + $ _____ $= 7\frac{1}{2}$

2)  $8\frac{4}{5} - \frac{2}{3} - $ _____ $= 3\frac{1}{10}$

Name _____     Date _____

Solve the word problems using the RDW strategy.  Show all your work.

Cheryl bought a sandwich for $5\frac{1}{2}$ dollars and a drink for  $2.60.  If she paid for her meal with a $10 bill, how much money did she have left.?  Write your answer as a fraction and in dollars and cents.

**Lesson 15:** Solve Multi-Step Word Problems:  Assess Reasonableness of Solutions Using Benchmark Numbers
**Date:** 11/28/12

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3.D.41

Name _____        Date _____

a)   1 ribbon.  The piece shown below is only 2/3 of the whole.  Complete the drawing to show the whole piece of ribbon.

b)   1 ribbon.  The piece shown below is 1/4 of the whole.  Complete the drawing to show the whole piece of ribbon.

c)   3 ribbons, A, B, and C.  1 third of A is the same length as B.  C is half as long as B.  Draw a picture of the ribbons.