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# Rational Number Project

## Level 1 / Lesson 14 / Overview

Students continue to model fractions with chips. They determine possible fractions that can be shown with different sets of chips.

## Materials

- Chips for students
- Student Pages A, B

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## Teaching Actions

1. Put this chart on board and ask children to tell you what fractions can be shown with each unit and why.

Unit in chips	Fractions you can show
6 chips	sixths, halves, thirds; not fourths
8 chips	
12 chips	
15 chips	
20 chips	

2. Ask students to name fractions that can not be shown with the above sets.

## Comments

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## Teaching Actions

3. Present these problems to students. Students model with chips. You draw pictures of models as students verbally describe their models to you.
  - 1) Show  $\frac{1}{4}$  with chips. Use 8 chips as a unit.
  - 2) Show  $\frac{1}{4}$  with chips. Use a unit other than 8 chips.
  - 3) Show  $\frac{1}{6}$  with chips in 2 different ways. Use 6 chips and 12 chips as your units.
  - 4) Show  $\frac{3}{5}$  with chips in two different ways. Use any two units.
4. Assign Student Pages A, B to reinforce chip model for fractions.

## Comments

1. To encourage communication, have students write out steps showing a fraction with chips.

1. Show each of these fractions with chips in two ways. You decide on the unit.  
Draw pictures of your models.

	model 1	model 2
$\frac{2}{3}$		
$\frac{1}{5}$		
$\frac{2}{9}$		
$\frac{3}{6}$		
$\frac{4}{5}$		
$\frac{1}{2}$		



## Post Lesson Reflection

Lesson \_\_\_\_\_

1) Number of class periods allocated to this lesson: \_\_\_\_\_

2) Student pages used: \_\_\_\_\_

3) Adaptations made in lesson development part:  
[For example: added extra problems, eliminated problems, changed fractions used]

4) Adaptations made on Student pages:

5) To improve lesson, next time I should: