

Fraction of an Apple

Standards of Learning

Math 3.3

English 3.1

Objective

Students will:

- Name and write the fractions represented by a given model

Materials

- *Apples* by Gail Gibbons

If this book is unavailable you may omit it or substitute another book on apples.

- An apple
- A knife
- The Apple Tree of Fractions worksheet (handout provided)
- Crayons/markers/colored pencils

Background Knowledge

This lesson serves as a review of fractions in which students are also learning important facts about how apples grow and develop. Students will learn that apples have five seed chambers. The core of an apple is the hard center which protects the seeds. The fleshy part of an apple is the part that is eaten. The skin of an apple protects the fruit.

Procedure

1. Ask the students if anyone likes apples.
2. Ask them if anyone likes products that are made from apples.
3. Ask the students to name some products made from apples and write them on the board.
4. Read the book, *Apples* by Gail Gibbons, to the class.
5. After reading the book, get the apple and knife.
6. On a front table, cut the apple in half.
7. Point out the different parts of the apple and tell the students the following information about these parts:
 - There are five seed chambers. These seeds can be used to grow more apple trees.
 - The core is the hard center of the apple which protects the seeds.
 - The fleshy part is the part of the fruit that we eat.
 - The skin protects the fruit.
8. Pick up one half of the apple and ask the students how much of the total apple does this piece represent.
 $\frac{1}{2}$
9. Cut each half in half.
10. Hold up three of these pieces and ask the students how much of the total apple do these three pieces represent.
 $\frac{3}{4}$



11. Cut each fourth in half.
12. Hold up one piece and ask the students how much of the total apple this piece represents.
 $\frac{1}{8}$
13. Hold up four pieces and ask how much of the total apple do these four pieces represent.
 $\frac{4}{8}$
14. Ask the students what part of the apple is $\frac{4}{8}$ equal to.
 $\frac{1}{2}$
15. Hand out The Apple Tree of Fractions worksheet to each student.
16. Ask the students to complete the worksheet.
17. Once the students have finished the worksheet, complete the worksheet on an overhead sheet as a class.
18. Ask the students:
 - What is one thing you learned about apples?
 - If I have 3 apples and you eat two of them, what fraction of the apples did you eat?
 - What fraction of the apples do I have left?

Extension

Ask students to create a short story book containing facts on Virginia apples. Information on Virginia apples can be found on the Virginia Apples website:

<http://www.virginiaapples.org/facts/index.html>.

References

Gibbons, G. (2000). *Apples*. New York: Holiday House.
ISBN 0-8234-1497-3

This book can be found in your school library, public library or can be purchased from your favorite book seller.



Name: _____

Date: _____

THE APPLE TREE OF FRACTIONS

Draw a smiley face in the box after you complete each step.

Color the tree trunk brown.

Draw 4 branches on the tree.

Color $\frac{4}{4}$ of them brown.

Draw 8 leaves on each branch.

On each branch:

Color $\frac{2}{8}$ of the leaves green.

Color $\frac{3}{8}$ of the leaves orange.

Color $\frac{2}{8}$ of the leaves yellow.

Color $\frac{1}{8}$ of the leaves brown.

Draw 2 apples on each branch.

Draw 1 apple on the ground.

Color the apples red, green, or yellow.

