



Penguin Fractions: Exploring the Basics


A sampling of selected pages and activities




Penguin Fractions: Exploring the Basics

Ready-to-use Activities for
Beginning Fraction Concepts


Created by
Laura Candler



CCSS Aligned
3rd Grade Math
Fraction Standards



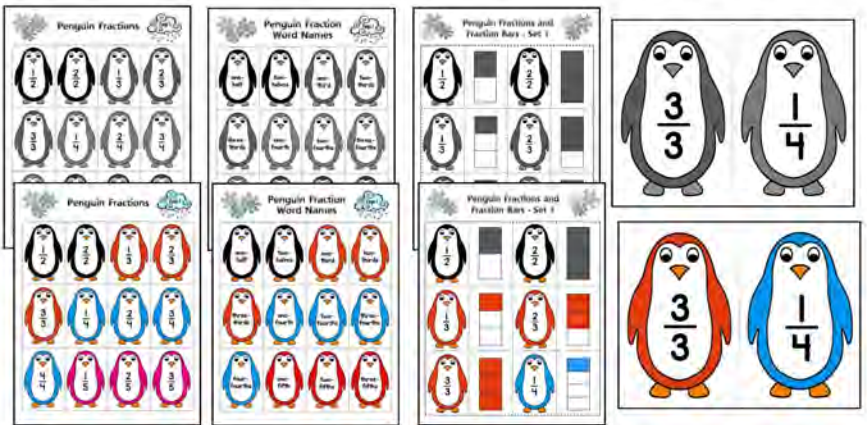
Penguin Fractions Exploring the Basics



Created by Laura Candler
www.lauracandler.com

Penguin Fractions: Exploring the Basics is a collection of mini-lessons, activities, and math center games to help students explore basic fraction concepts using penguin-themed materials. The concepts covered in this resource include learning to identify and name fractions, matching fraction bars with fractions in number and word form, understanding equivalent fraction concepts, and placing fractions on a number line. The activities are meant to supplement regular hands-on instruction, and to provide opportunities for students to have fun while practicing fraction skills. Penguin Fractions: Exploring the Basics includes this ebook and a collection of other resources located in the zip file you downloaded when you purchased the resource.

Read Before You Print!
Please skim through this Mini Pack and the PDF documents in the zip file to decide what you need before you start printing the materials. There are far more fractions cards than you need, and they come in several variations including color and B&W versions of everything. You definitely don't want to start printing until you know what you need!

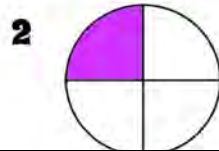


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All Pages Provided in Color and B&W

Now It's Your Turn!

Write both the number and word form for the colored section of each whole.



- 2 = half or
3 = third or
4 = fourth or
5 = fifth or
6 = sixth or

Comparing Fractions to One-Half

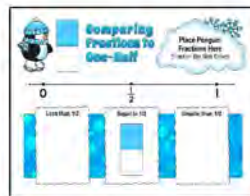
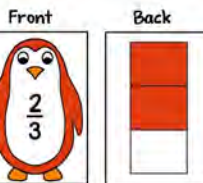


Materials for Two Players

- Deck of Penguin Fraction Bar Cards (Penguin Fractions on one side and matching fraction bar on the other)
- Comparing Fractions to One-Half Sorting Board

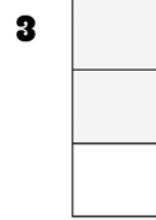
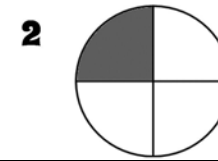
Partner Directions

- Shuffle the penguin fraction cards and place them with the number fractions face up and the fraction bars face down.
- Partner A picks up the top card and names the fraction. He or she tells Partner B whether the fraction is less than $1/2$, equal to $1/2$, or greater than $1/2$.
- Then Partner A turns over the card and compares the fraction bar to the fraction bar at the top of the board.
- Partner A places the card in the correct box with the number fraction face up and says a fraction sentence to explain the action. For example, "Two-thirds is greater than $1/2$."
- Partner B picks up the next fraction card and repeats the steps.
- Take turns until all cards are placed.



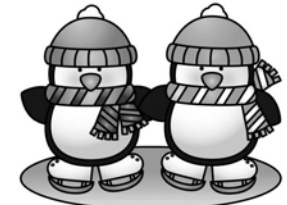
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Comparing Fractions to One-Half

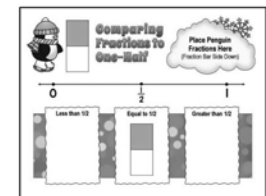
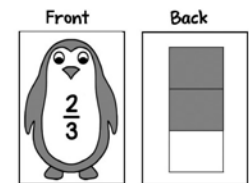


Materials for Two Players

- Deck of Penguin Fraction Bar Cards (Penguin Fractions on one side and matching fraction bar on the other)
- Comparing Fractions to One-Half Sorting Board





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Over 50 pages of lessons and activities!

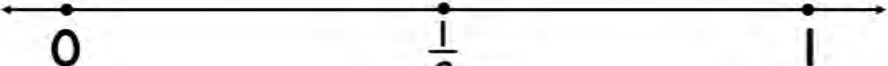
Penguin Fraction Hunt Clues (1-6)

<p>1</p> <p>Find a fraction equal to $\frac{1}{2}$</p> 	<p>2</p> <p>Find a fraction with a denominator of four.</p> 
<p>3</p> <p>Find a fraction with a numerator of one.</p> 	<p>4</p> <p>Find two equivalent fractions.</p> 





Comparing Fractions to One-Half







Place Penguin Fractions Here
(Fraction Bar Side Down)





Less than $\frac{1}{2}$



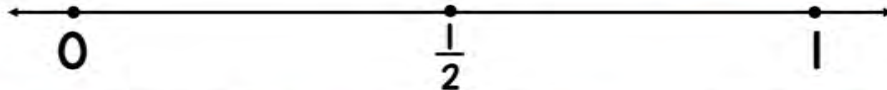
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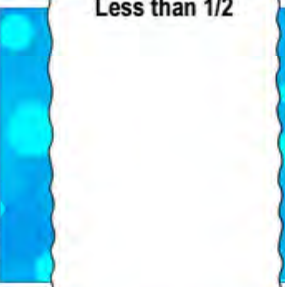
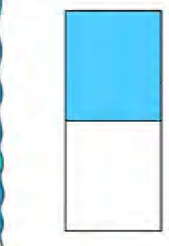

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<p>3</p> <p>Find a fraction with a numerator of one.</p> 	<p>4</p> <p>Find two equivalent fractions.</p> 
<p>5</p> <p>Find two fractions with the same denominator.</p> 	<p>6</p> <p>Find a fraction greater than $\frac{1}{2}$</p> 

Comparing Fractions to One-Half

Place Penguin Fractions Here
(Fraction Bar Side Down)



<p>Less than $\frac{1}{2}$</p> 	<p>Equal to $\frac{1}{2}$</p> 	<p>Greater than $\frac{1}{2}$</p> 
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Over 100 Penguin Fraction Cards (Color and B&W)

Several Sizes and Formats - Ready to Print, Cut, and Use

Penguin Fractions Page 1

Penguin Fraction Word Names Page 1

Penguin Equivalent Fractions - Set 2

Penguin Fractions and Fraction Bars - Set 1

Penguin Equivalent Fractions - Set 2

Penguin Fraction Cards (Large)

Penguin Fraction Cards (Small)

Aligned with 3rd Grade CCSS Nice Review for 4th and 5th Grade, too!

Fractions on a Number Line

Penguin Fractions on Number Lines

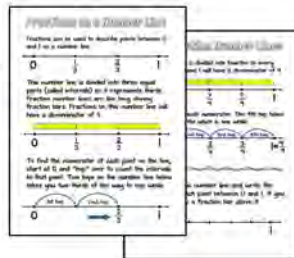
Teacher Information and Suggestions

Overview

Students will explore the concept that fractions can be represented on number lines as points between 0 and 1.

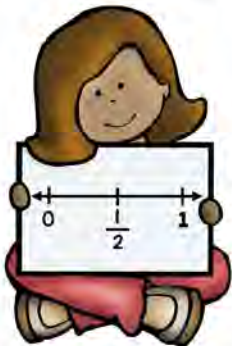
Materials for Part I - Intro Lesson

- Fractions on a Number Line pages to display
- Individual Dry Erase Boards and Markers
- 1 set of large fraction cards including all halves, thirds, fourths, fifths, and sixths (in zip file)
- Yarn, string, or adding machine paper



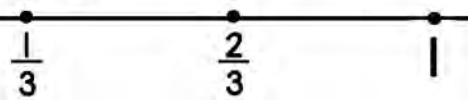
Teaching Suggestions for Intro Lesson

1. **Demonstrate the Concept** - Display both of the Fractions on a Number Line pages, one at a time, and demonstrate how to identify fractional points on number lines. Ask students to respond on dry erase boards as you work through the introductory material. The biggest mistake students make is to count the points in between the whole numbers rather than counting the intervals or equal sections. An easy way to help them overcome this problem and find the denominator is to take a finger and "hop" along the number line, always starting at 0 and ending at 1. They can also hop a second time, stopping at the designated point, to find the numerator.
2. **Students Draw Fraction Number Lines** - Ask your students to draw a fraction number line on their dry erase boards as you demonstrate. Show them how to label the ends with 0 and 1 and to label each point in between. Start with halves, then move to thirds, and fourths. Drawing number lines and labeling every fractional point will help them learn to locate points on number lines that don't have all points labeled.
3. **Whole Group Practice** - Use yarn, string, or a long strip of adding machine paper to create a number line across the board or the wall at the front of the room. Mark it off in equal sections, and label the ends "0" and "1." Give each student at least one of the large fraction cards. Point to a spot on the line and ask if anyone has a card that names the fraction for that point. Let that student come forward and attach the card to that point on the number line. Repeat with different points on the line.



Fractions on a Number Line

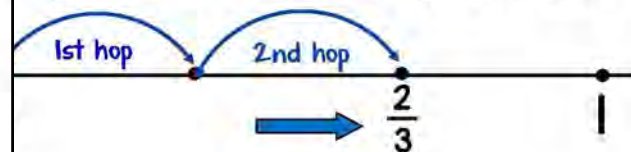
Fractions can be used to describe points between 0 and 1 on a number line.



A number line is divided into three equal sections (called intervals) so it represents thirds. Fraction number lines are like long skinny addition bars. Fractions on this number line will have a denominator of 3.



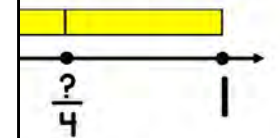
To find the numerator of each point on the line, start at 0 and "hop" over to count the intervals to that point. Two hops on the number line below shows you two-thirds of the way to one whole.



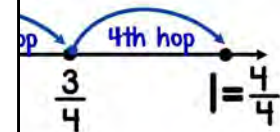
0

Number Lines

A number line is divided into four equal sections so every section represents a denominator of 4.



The 4th hop takes you to the whole.



Label the points between 0 and 1. If you know the fraction, write it above it.

