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# Teaching is Just Messy.





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# Patience





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**The teaching and learning  
of mathematics is a long  
game.**



**Develop understanding of fractions as numbers.**

1. Understand a fraction  $1/b$  as the quantity formed by 1 part when a whole is partitioned into  $b$  equal parts; understand a fraction  $a/b$  as the quantity formed by  $a$  parts of size  $1/b$ .
2. Understand a fraction as a number on the number line; represent fractions on a number line diagram.
  - a. Represent a fraction  $1/b$  on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into  $b$  equal parts. Recognize that each part has size  $1/b$  and that the endpoint of the part based at 0 locates the number  $1/b$  on the number line.
  - b. Represent a fraction  $a/b$  on a number line diagram by marking off  $a$  lengths  $1/b$  from 0. Recognize that the resulting interval has size  $a/b$  and that its endpoint locates the number  $a/b$  on the number line.
3. Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.
  - a. Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.
  - b. Recognize and generate simple equivalent fractions, e.g.,  $1/2 = 2/4$ ,  $4/6 = 2/3$ . Explain why the fractions are equivalent, e.g., by using a visual fraction model.
  - c. Express whole numbers as fractions, and recognize fractions that





# The Journey is Long



# 5th Grade Go Math Pacing Guide - Common Core

## Chapter 1 - 15 Days

Lesson	Topic	Standard	Time	HW	Notes
	Introduction/ Pre-Assessment		1 Day	P1	
1.1	Place Value and Patterns	CC.5.NBT.1	1 Day	P3-4	
1.2	Place Value of Whole Numbers	CC.5.NBT.1	1 Day	P5-6	
1.3	Algebra and Properties	CC.5.NBT.6	1 Day	P7-8	
1.4	Powers of 10 and Exponents	CC.5.NBT.2	1 Day	P9-10	
1.5	Multiplication Patterns	CC.5.NBT.2	1 Day	P11-12	
	Study		1 Day		
	Quiz		1/2 Block		
1.6	Multiply by 1-Digit Numbers	CC.5.NBT.5	1/2 Block	P13-14	Teach after Quiz
1.7	Multiply by 2-Digit Numbers	CC.5.NBT.5	1 Day	P15-16	
1.8	Division and Distributive Property	CC.5.NBT.6	<b>Skip</b>	P17-18	
1.9	Problem Solving	CC.5.NBT.6	1 Day	P19-20	
1.10	Numerical Expressions	CC.5.OA.2	1 Day	P21-22	
1.11	Order of Operations	CC.5.OA.1	1 Day	P23-24	
1.12	Grouping Symbols	CC.5.NBT.1	1 Day	P25-26	
	Study		1 Day		
	Test		1 Day		Challenging. Look at last page



# A Challenge and a Gift



# Go Slow To Go Fast



# It's Okay To Walk Away From a Math Problem





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**It's not the piece of writing.**

**It's about the writer.**



**It's not the math problem.**

**It's about the math learner.**





# Wait Time



# This work is complex.



**The sum of the work will  
always be greater than any  
individual decision.**

**We show who we are over  
time.**





# THANK YOU!

**ZACHARY CHAMPAGNE**

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