

MATHEMATICS RAFT WRITING

RAFT writing allows students to write so that they can learn. You learn through use of a writing prompt that has learners think about a concept or topic through different perspectives (Santa, 1989)

The *RAFT* Framework Includes:

- **ROLE** of the Writer (Who are you as the writer?)
- **AUDIENCE** (To whom are you writing?)
- **FORMAT** (What format are you writing?)
- **TOPIC** (What are you writing about?)

Source: www.adlit.org/strategies/19783

ROLE	AUDIENCE	FORMAT	TOPIC
Zero	Whole Numbers	Campaign Speech	Importance of the Number 0
Scale Factor	Architect	Directions for A Blue Print	Scale Drawings
Percent	Student	Tip Sheet	Mental Ways to Calculate Percent
Repeating Decimal	Customers	Petition	Proof/Check for Set Membership
Prime Number	Rational Numbers	Instructions	Rules for Divisibility
Parts of a Graph	TV Audience	Script	How to Read a Graph
Exponent	Jury	Instructions to the Jury	Laws of Exponents

Source: Barton & Hedeima (2002)

FRACTIONS RAFT

ROLE	AUDIENCE	FORMAT	TOPIC
Fraction	Whole Number	Children's Book	Do You Want a Piece of Me?
Fraction	Its Equivalents	Invitation and a Mask	Come to the Masquerade Ball!
Fraction-disguised -as-a decimal	The Public	Wanted Poster/ Warning Ad	Warning! This dangerous fraction is disguised as a decimal...
Fraction	Other Students	Paper People Wardrobe Changes	What to wear when you are a fraction, decimal, and percent

FRACTIONS RAFT #2

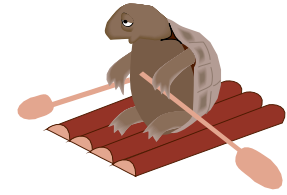
ROLE	AUDIENCE	FORMAT	TOPIC
Fraction	Whole Numbers	Petitions	To be considered part of the family
Improper Fraction	Mixed Numbers	Reconciliation Letter	We're more alike than different
A Simplified Fraction	A Non-Simplified Fraction	Public Service Announcement	A case for simplicity
Greatest Common Fraction	Common Factor	Nursery Rhyme	I'm the greatest!
Equivalent Fractions	Non Equivalent	Personal Ad	How to find your soul mate
Least Common Multiple	Multiple Sets of Numbers	Recipe	The smaller, the better
Like Denominators in an Addition Problem	Unlike Denominators in an Addition Problem	Application Form	To become to like denominator
A Mixed Number that Needs to be Renamed to Subtract	5 th Grade Math Students	Riddle	What's my new name?
Like Denominators in an Subtraction Problem	Unlike Denominators in an Subtraction Problem	Story Board	How to become a like denominator
Fraction	Baker	Directions	To double the recipe
Estimated Sum	Fractions/Mixed Numbers	Advice Column	To become well-rounded

Math Raft

Select one of the following roles. Follow across the row and complete the audience, format, and topic portions.

Role: Who are you?	Audience: To whom is this written?	Format: What form will it take?	Topic: What is the topic?
One parallel line	The other parallel line	A (love) rejection letter	Why we just don't connect?
A vertical line	A horizontal line	Advice column	How not to be so flat?
Origin (0, 0)	Any other coordinate	Riddle	Why I am so special?
Linear Equation	itself	Journal	Why do I always take the straight and narrow path?
Standard form ($Ax + By = C$)	Slope-Intercept Form ($y = mx + b$)	A Friendly letter	We are just alike.
Positive Slope	Negative Slope	Marriage Proposal	Our differences make us alike.

Math RAFT



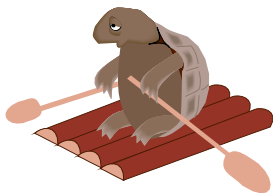
Audience

Format

Topic

Calculator	Math Student	Directions	Don't use me to multiply and divide by base 10!
Fraction	Student Who Hates Fractions	A Friendly Note	Relax! Let me tell you a few tricks to remember when playing with my friends and me.
Teacher	Class	A Written Lesson	Did you know math is everywhere? You can not escape math!
Metric System	US Congress	Written Petition	I am far superior to your English system. You must adopt me nation wide.
Decimal Point •	Confused Math Student	Instructions	So, your confused on how to move me when you \times $+$ $-$ and $/$.

Directions: Being able to calculate well is only one aspect of understanding math. When you can explain a math application or property you truly demonstrate a clear understanding of that concept. Select from one of the RAFT assignments above and write a creative response assuming that role. Remember to keep your audience in mind when you respond to the topic.



Eric Soskil, Conway School, St. Louis, MO

RAFTs for Math

Role	Audience	Format	Topic
Exponent	Jury	Instructions	Laws of Exponents
Acute Triangle	Obtuse Triangle	Dear John Letter	Our Differences
Percent	Student	How-To Guide	Mental ways to calculate percent
Prime Number	Rational Numbers	Club Membership Form	How to Join My Club
Parts of a Graph	TV Audience	Script	Which of Us Is Most Important?
Plus Sign	Multiplication Sign	Romantic Card	Why We Go Together
One	Whole numbers	Advice column	Perfect, abundant, deficient, amicable numbers
Variable	Equations	Letter	Role of variables
Container	Self	Diary	Comparing volume measurements
Acute triangle	Obtuse triangle	Letter	Explain differences of triangles
Function	Relations	Article	Argue the importance of functions

End of Year Raft Activity

Role	Audience	Format	Topic
Backpack	Next year's teacher	Plea	What will you fill me with?
Note to my parents about a conference with my teacher in November	Student	Advice column	How are you going to explain this one?
Student	Student who will be sitting in your desk next year	Note	What you need to know about your new teacher
A French fry on the floor of the cafeteria	The foot of a 7 th grader	Persuasive letter	Why you shouldn't step on me
Computer Mouse	Greasy hand	Plea or persuasive letter	Be careful with me!