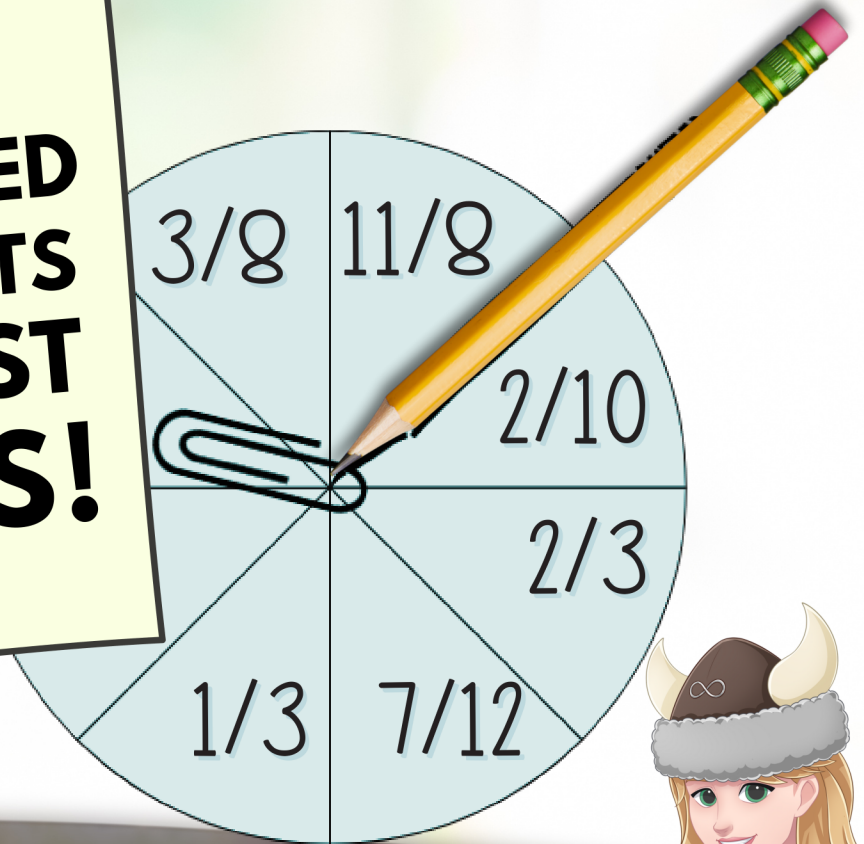


D.I.Y GAMES ON THE FLY



**EVERYTHING YOU NEED
TO GET YOUR STUDENTS
CREATING THE BEST
MATH GAMES!**



DIGITAL & HANDS-ON



STUDENT CREATED SPINNERS

Games are an engaging way to practice a new skill. They are also SO MUCH MORE! Student created or student adapted games give us insight to their reasoning, understanding, and confidence levels.

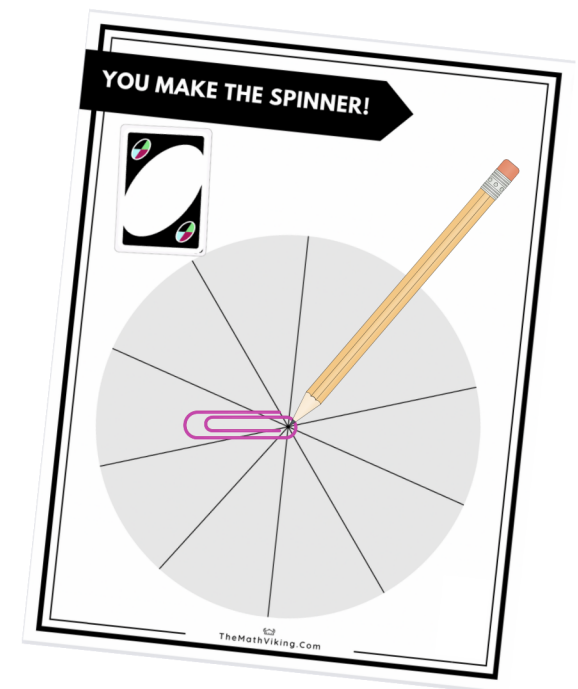
When learners can adapt a game to be easier, harder or apply a different math skill - they are synthesizing ideas and creating something new! They have BUY-IN and we have INSIGHT.

Take full advantage of this spinner for your content. Try presenting the blank spinner to students and ask them how to make a game out of what we are learning right now.

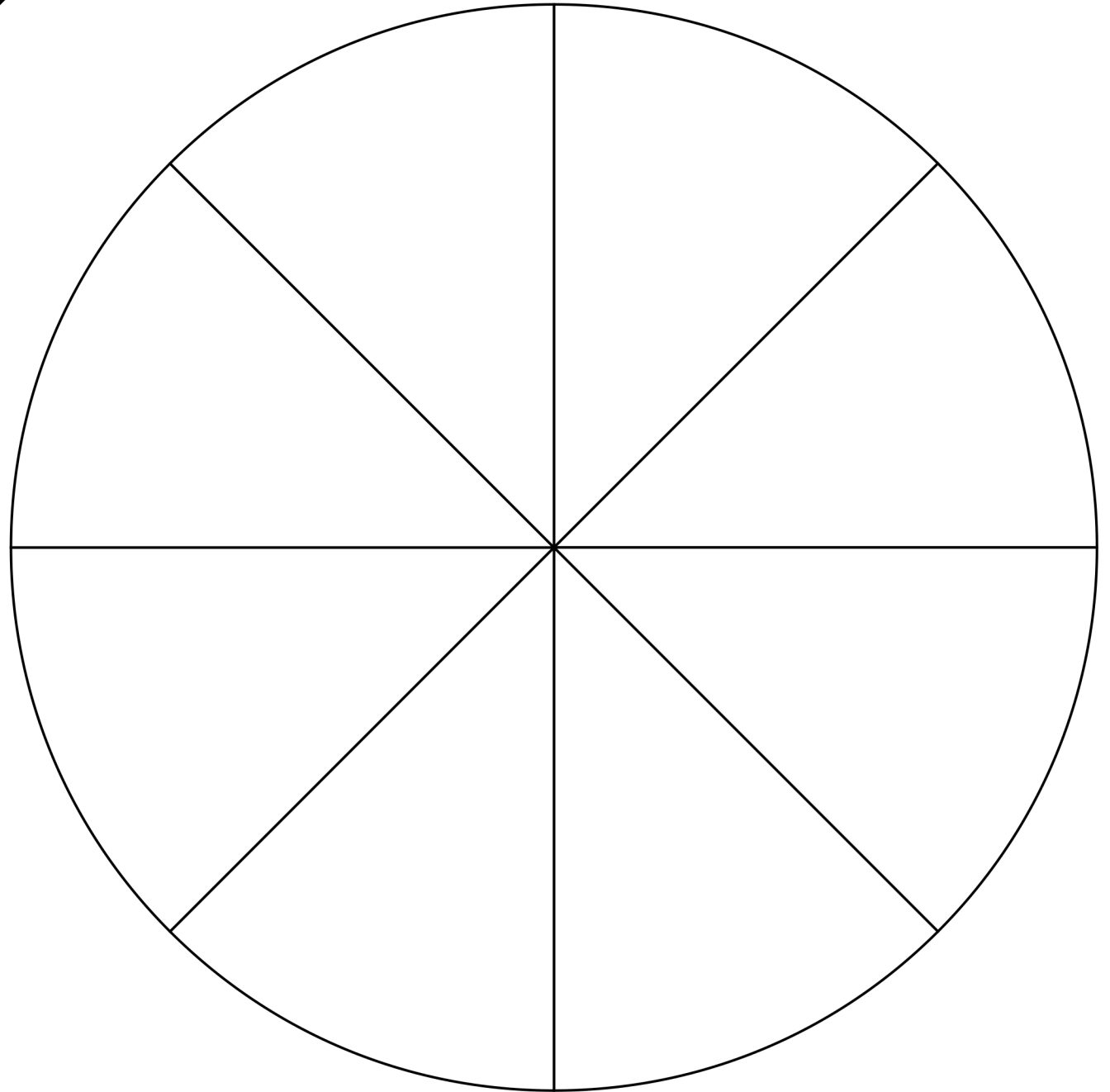
OPTIONS::

- add & subtract tens from random numbers on the spinner
- subtract random numbers from 100
- multiply by a particular factor.
- divide by a particular factor.
- change the value of a variable, exponent, coefficient ...
- multiply $4y - 1$ from expressions students create

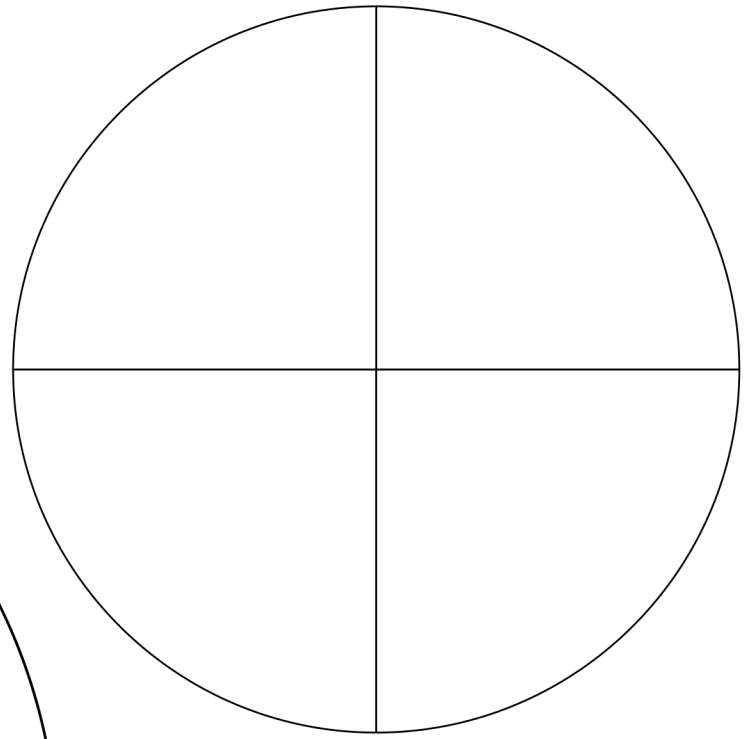
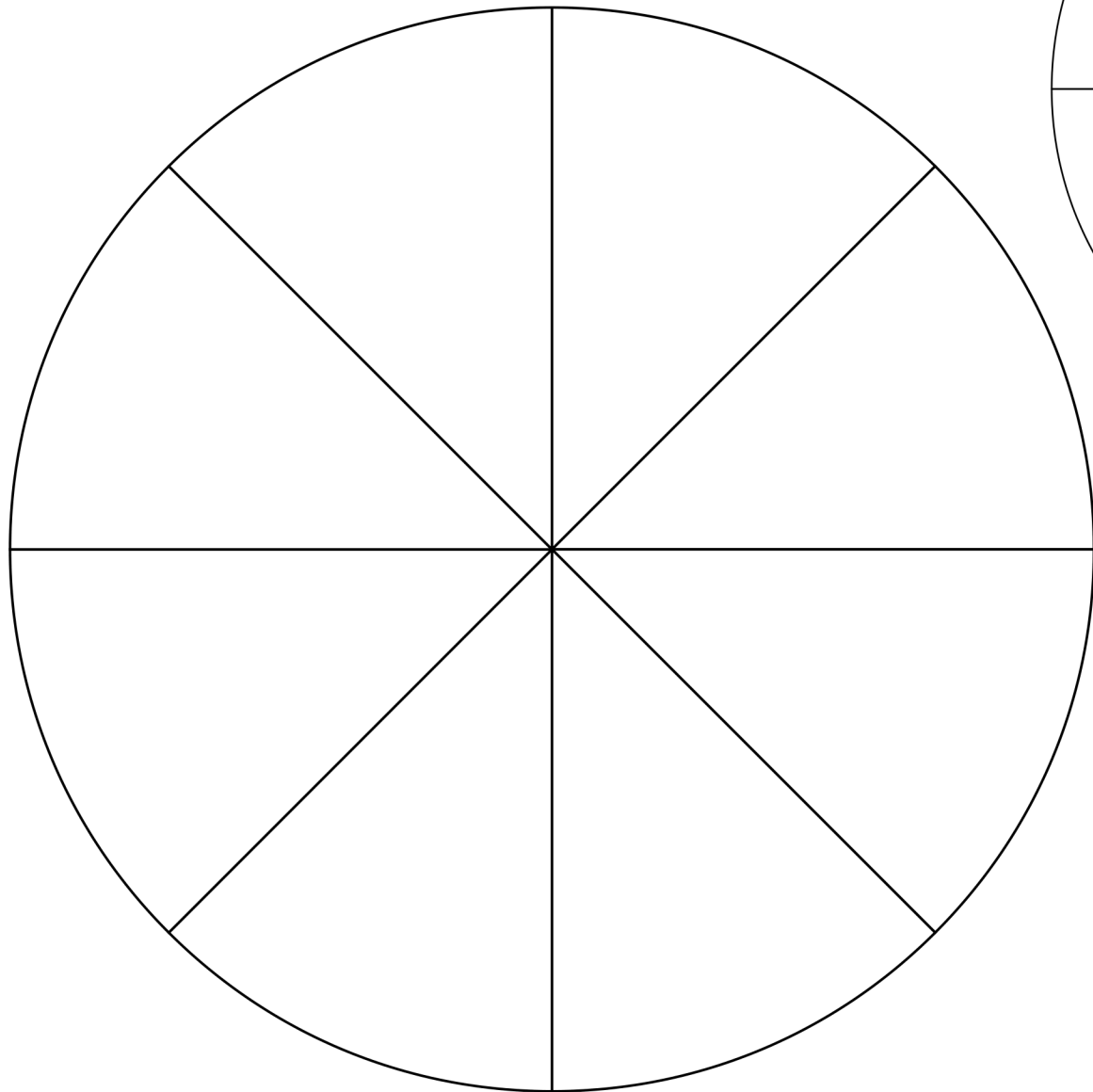
**WHAT ELSE COULD YOU DO WITH A BLANK SPINNER?
OR A BLANK CARD AND A BLANK SPINNER COMBINATION?**



CREATE YOUR GAME!



CREATE YOUR GAME!



TEACHER NOTES:**STUDENT CREATED BINGO!**

Take full advantage of blank BINGO boards for your content. Create a few of your own and then have students create their own. **TRY SOME VARIATION OF THESE.**

Addition & Subtraction:

- Filling it with "sums we might get when we roll two dice"
- "Differences we might get when we subtract one playing card from another"

Place Value:

"Create a board with numbers >50 and < 100 ."

- Cover the number that is 3 tens less than 45.
- Cover the number that is 4 tens and 26 ones.
- Cover the number that is 18 ones and 5 tens

Fractions:

- Fill your board with fractions equivalent to $1/2$, $1/4$ or $3/4$. I will call out equivalent fractions. "Cover $75/100$. Cover $3/6$. Cover $2/8$." (Observe their boards. This is a great exit ticket.)

Multiplication:

- Fill your board with products we should see when we multiply two regular dice.

Integers:

- Products we should get when we flip two cards and multiply. Black cards are + and red are -.

WHAT ELSE COULD YOU DO WITH A BLANK BINGO CARD?



B

I

N

G

O



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FREE SPACE

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PIG!

A DICE ROLLING
MATH BLAST

PIG GAME RULES

THE BASICS

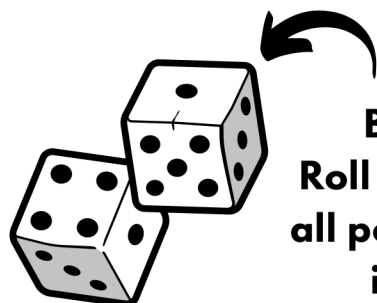
Players take turns rolling & mentally tallying the points until they decide to stop and "BANK" the points so far, OR until a ONE is rolled and all points are lost. Play moves to the next player when points are banked or a one is rolled.

Each player rolls _____ dice.
*one or two

The number rolled is worth _____.
*ones, tens, hundreds, halves etc...



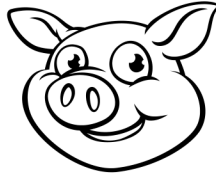
Write down your points for each turn IF you "bank" before rolling a one.



BE CAREFUL!
Roll a ONE and lose all points that aren't in the bank!

DON'T BE A PIG!

PIG GAME RULES



Each player rolls ____ dice.

*one or two

The number rolled is worth _____.

*ones, tens, hundreds, halves etc...

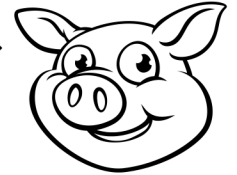
Players continue rolling and tallying points until they "BANK" the points OR roll a ONE and lose all points.



_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____



PIG GAME RULES



Each player rolls ____ dice.

*one or two

The number rolled is worth _____.

*ones, tens, hundreds, halves etc...

Players continue rolling and tallying points until they "BANK" the points OR roll a ONE and lose all points.



_____	_____
_____	_____
_____	_____
_____	_____
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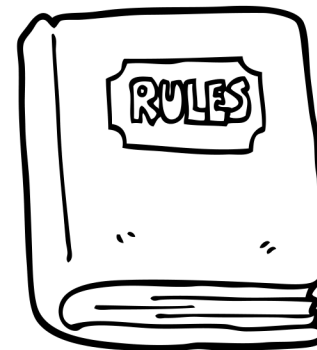


PIG GAME OPTIONS!

LEVEL UP

Let's change it up! Create a NEW RULE or a new way to play "Pig!"

Here are some ideas.



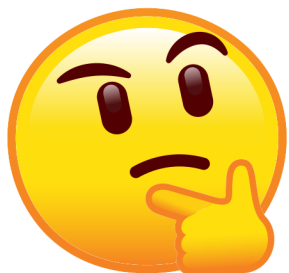
✦ Each player rolls _____ dice.
*one or two

✦ The number rolled is worth _____.
*triple the value, half the value, 7 times the value etc...

✦ Begin with _____ points and subtract dice rolls. The first player to get to zero wins!

✦ Roll 2 dice at a time. Rolling a 1 still makes you lose your turn, but rolling double ones makes you double your points so far!

✦ _____



TEACHER NOTES**STUDENT CREATED "WAR" GAMES**

Flip & Skirmish (or War) has lots of variations. I hope to discover more so feel free to tag me and share your ideas! Usually the largest number is the winner and the winner keeps the cards. Player with the most cards when time is up, wins. Do you need to use the template?? NO! But it's fun and it serves as a reminder of the different games.

**TRY SOME VARIATION OF THESE:**

- Flip & Compare numbers
- Flip & Double, then compare
- Flip 2 & Make the largest EVEN number you can (no even digits? DOUBLE BATTLE)
- Flip & Multiply by 7, then compare
- Flip 2 & Smallest Difference Wins!
- Flip 2 & place in any order. Closest to 50 wins.
- Flip 2 & place in any order. Use a counter for a decimal point. Closest to .75 wins
Closest to 1.5; Closest to $\frac{9}{10}$; Closest to 25%; Infinite options!

Have students come up with a NEW VARIATION or a NEW RULE!

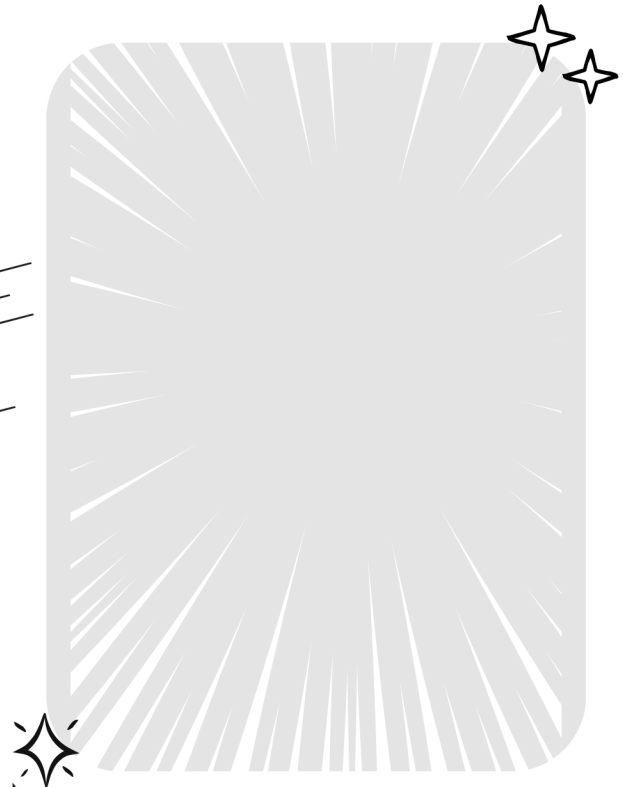
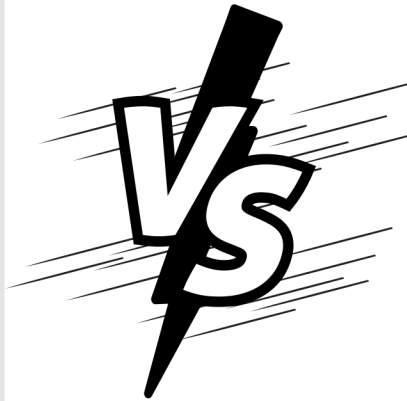
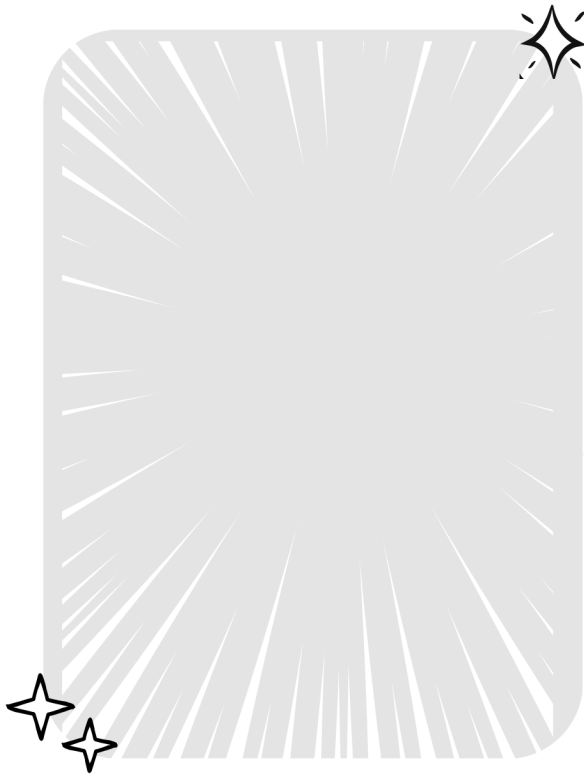
*Flip 3 cards and choose the 2 you want! (One of my favorite student rules.)

What else could you do with a deck of cards?

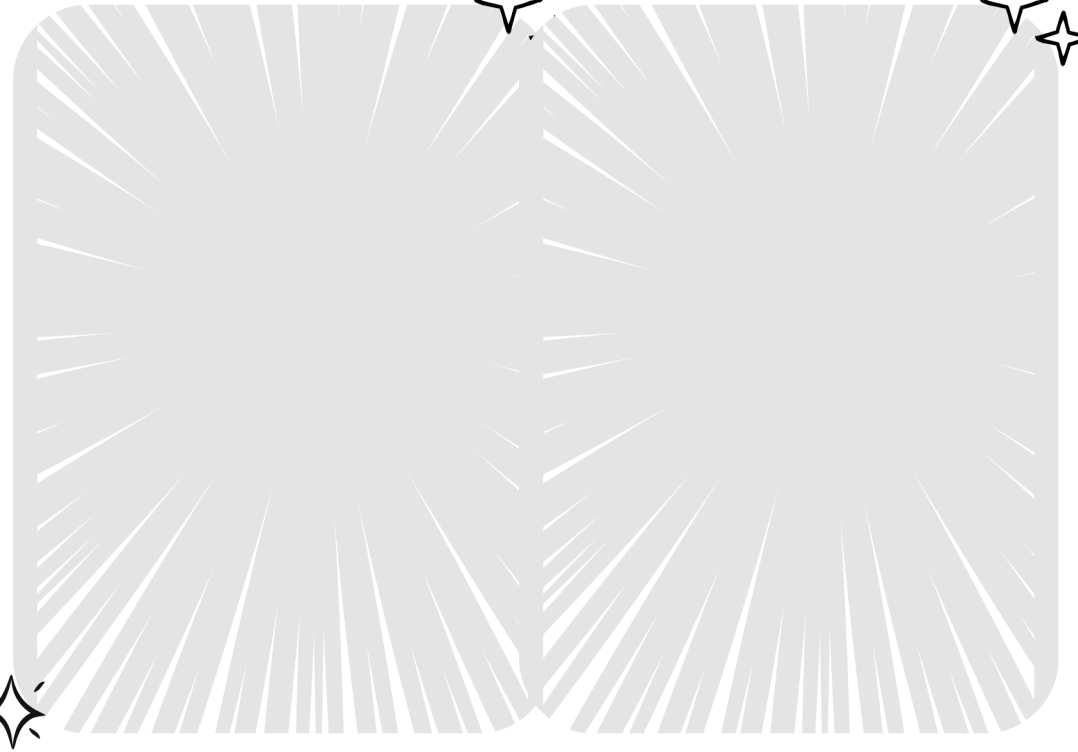
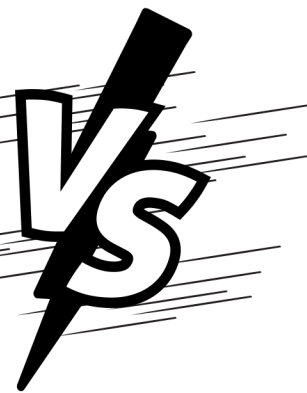
Email me another idea you tried, and I will send you another great game!

THEMATHVIKING@GMAIL.COM

FLIP & SKIRMISH!



FLIP & SKIRMISH!



✦

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***Sharing with your own students via a closed Google Classroom is always permitted.**



02/20/2021 | Bonnie F.
100 Number Dash! 100th Day Counting & Skip Counting Gam...
 This has been a "game changer" - pun intended. Students really love to play it and it's helped so much with understanding fractions. We will be adapting the game to use in the various other ways you've provided. Thank you!



My students had so much fun playing this game. I love how you can adapt it to different levels and skills.

Engaging Math on TPT for Upper Elementary & Middles

4/6 NBT Standards 4/5 OA Standards 4/6 NF Standards

NUMBER OF THE DAY

templates

GRADES 4. 5. 6

Over 80 Differentiated Templates!

180 DAYS OF REASONING ABOUT NUMBERS!

Number Sense Templates

DAILY REASONING & NUMBER SENSE BUNDLE

Whole Number Place Value
Decimal Number Place Value
Fractions!

Editable Google Slide Templates

GRADES 5/6

5.NBT
5.OA
5.NF

Build a Thinking Classroom!

HANDS-ON FRACTION GAMES BUNDLE

Engaging Games
Develop Deeper Understanding

FRACTION COVER UP
HIDING FRACTIONS!
FRACTION BATTLE

Counting/Composing
Decomposing FUN!

FRACTION OPERATIONS BUNDLE

Visual & Contextual

FRACTIONS SHAPES & AREA
FRACTION MULTIPLICATION
FRACTION DIVISION
NUMBERLESS FRACTIONS

Engaging games to
reason about fractions

Math Enrichment BUNDLE

Engaging Projects to
Develop Reasoning & Creativity

Exploring Algebra
WHICH ONE IS JUST
BE A MATH VIDEO GAME REVIEWER!

Fun Projects & Student
Created Extensions!

W.O.D.B? REASONING BUNDLE

Reason About Numbers & Pictures
Responsive Classroom Soft Start!

3-6

Essential Math!

Place Value Pilates KNOCKOUT!

Because Understanding Base Ten Demands:
Flexibility & Fluidity

Grades 4-6

Place Value Pilates Match Games

Because Understanding BIGGER NUMBERS in Base Ten Demands:
Flexibility & Fluidity

Grades 4-6

Math Enrichment BUNDLE

4-8

PRINTABLE PACKETS
For Flexible Thinking!

FRACTION ENRICHMENT
AREA ENRICHMENT
ALGEBRAIC ENRICHMENT
PLACE VALUE ENRICHMENT

Printable Enrichment
pages OR packets!

100 NUMBER DASH!

Counting isn't just for kindergarten!
Count by ones! Tens! Hundredths!

With 10 levels of supportive recording sheets!

Ages 6 & up
Grades 1-6

BANK or PLANK

It's a Virtual Blast!

With a piggy bank and a person planking.

(No math. Just fun.)

25 RAISING MASTERMINDS GAMES

Mastermind Bundle

HALLOWEEN MASTERMIND
WATER & HOLIDAY MASTERMIND




SCAN FOR YOUR FREE TEACHER TOOLKIT, PLAYLISTS, MATH PHOTOS & MONTHLY FREEBIES!

TODAY'S MATH PLAYLIST

MATH I MUST DO:

- Dreambox
- 1. Division lesson if available
- 2. Other assigned lesson
- 3. Any lesson
- Go Math:
Page: 51 & 52 1-17 odd
- Greg Tang Break Apart:
DIVISION PARTIALS

$42 \div 3 = \frac{7}{3} + \frac{12}{3}$

10 40 30 20

THEN I CAN CHOOSE TO:

- [Word Problem Generator](#)
- [Area Model Division Match Game & Make your own pair!](#)
- NOTD: $N < 10^3$
N is a multiple of 2

10 MINUTE GAME GRID CHOICES:

- Greg Tang Break Apart
- Quotient Cafe

GAME GRID:

I can break apart numbers to divide in my head!
5.NBT.B6

Editable Math Playlists!



Make up a story about taking away.



The answer is twelve halves. What is the question?



The product is 36. What is the question?

Click here to check out the [problem solving blog post](#) for more teaching tips!

If you think math should be as playful as it is sophisticated, Join The Math Viking