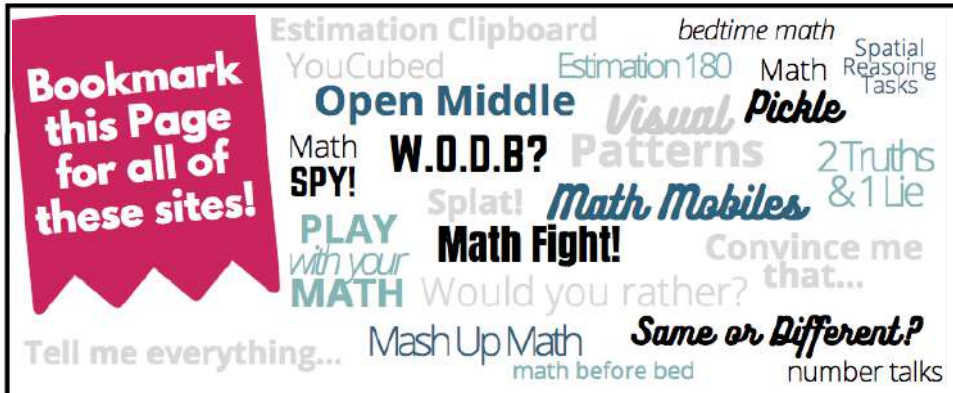


A note about math enrichment:

The more "low floor-high ceiling" rich math tasks we do, the less isolated extensions we will need. Math enrichment is not just for fast finishers and advanced learners. All students deserve engaging open-ended math play!

Check out the "Periodic Table of Math Awesomeness" which is a collection of links in my Enrichment Blog Post.

For printable packets that encourage flexible and creative thinking, check these out: Printable Challenge/Enrichment Packets

Quick Extension Ideas:

"Write a test question with 4 multiple choice answers. Indicate the correct answer(s), and explain what misconception or mistake might result in each of the wrong answers.

Students can write math stories modeled after Remainder of One, Math Curse, Sir Cumference, and The Greedy Triangle.

Students design their own W.O.D.B, 2 Truths & 1 Lie Slides and Numberless problems for current topics. (Here is a template option)

Students create math story problems; with pencil & paper, with Flipgrid or Padlet, or in Google Slides. Here are some story writing activities for first & second grades, or third through sixth grades.

Students can create their own KAHOOT and Gimkit games. Click for free directions.

More Extension Ideas:

Students play educational math games and pretend they are "Math Video Game Reviewers" and while not very lucrative financially, students have LOVED this project and often ask to do it again with new games. Win-Win!

Math Mobiles are a great enrichment task! (I use them in all of the enrichment packs too.) The site levels up pretty fast though!

"Among Us" Algebraic Reasoning project is one of my all time favorites!

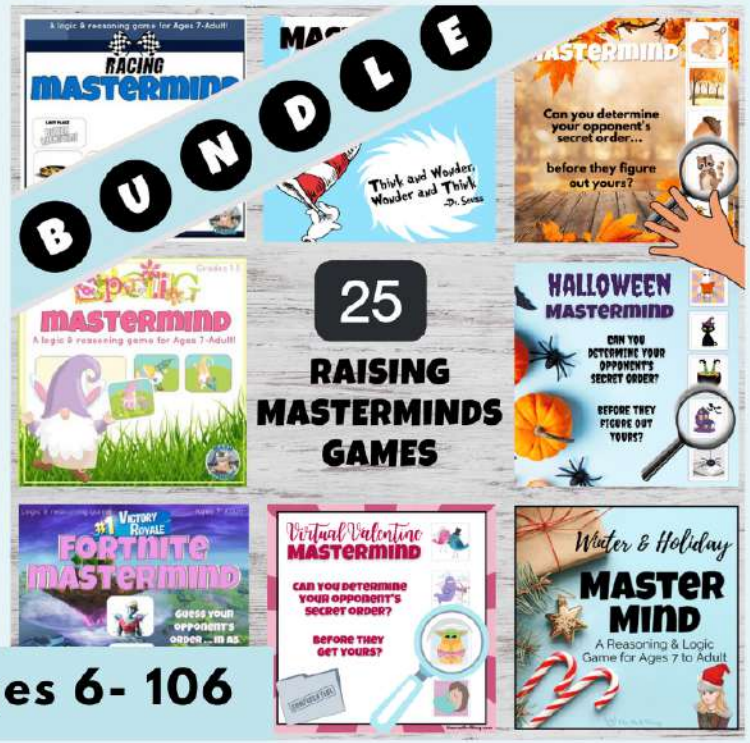
Fortnite Algebraic Reasoning Project: while I designed it for 4th and 5th graders, I have used it for enrichment with 2/3 graders very successfully! The third level of the project has students create their own balance scales!

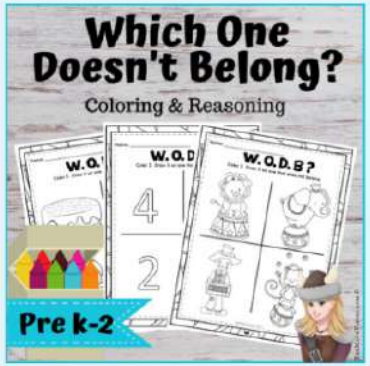
Speaking of "create their own", you will notice that every Task Card/Match Game resource I offer, has a blank template to encourage students to make their own. Of course you can do this with any task cards or games you have. Students can make their own fraction dominoes, decimal cards, anything! Ask them to consider "what is important when creating? What do you

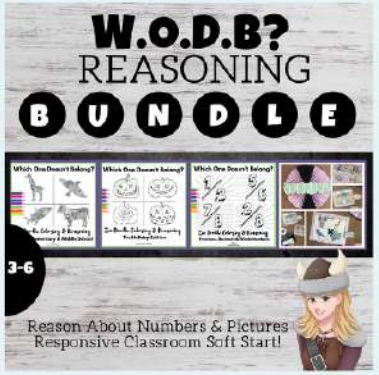
"The ABC's of Fractions" is just as worthy as "The ABC's of Fourth Grade Math" or *any other topic you desire*. I always have a long-term project going on. Sometimes they are posters or digital end-of-chapter projects. It's great to have something kids enjoy returning to when they finish everything else or they have to wait for a partner... or me.

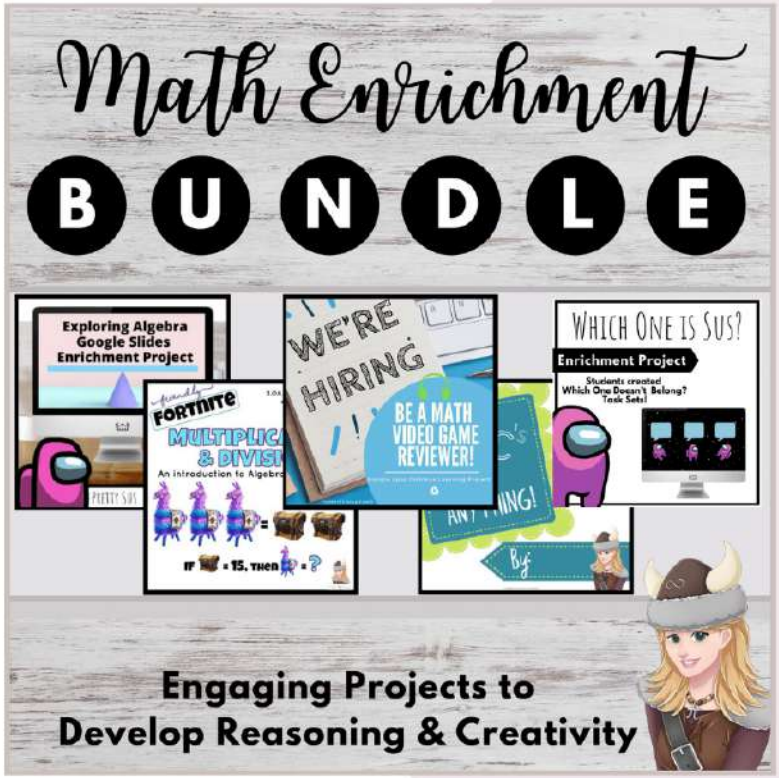
Engaging Enrichment Options for Independent Time

***Designed to be independent, creative and playful, these printable packets challenge all year long! Be sure to pull out some of the tasks for your entire class! Reasoning is for all students!**









Here are some easy to implement challenge tasks for any age!

Copy and paste as desired into a new doc for your students.

*Tip: Each day, ask a question in class you think *nobody* could possibly answer. And occasionally offer a task you think is *too* hard.

Student created mystery numbers!

Be sure to have them solve some mystery numbers before attempting to create their own!

What next?

Have you ever encouraged your students to create their own mystery number?

Just think how much this reinforces number ideas AND vocabulary! It is a relevant & engaging way to develop confidence with symbols as well.

While this can be a challenge for little ones, they will learn from the struggle. It's a great partner activity for all ages!

Who says the mystery number can't be .75?

Guess my Mystery Number!

The mystery number is odd/even**.**

The mystery number < ? **.**

The mystery number > ? **.**

The digit ? **is not in the number.**

Delete this text and write a new clue.

Guess my Mystery Number!

The mystery number > _____?_____.

The mystery number is _____?_____.

The mystery number < _____?_____.

The sum of the digits is _____?_____.

Delete this text and write a new clue.

Guess my Mystery Number!

You would say my mystery number if you counted by __?__.

You would NOT say my mystery number if you counted by __?__.

The mystery number is more than __?__ but fewer than __?__.

Delete this text and write a new clue.

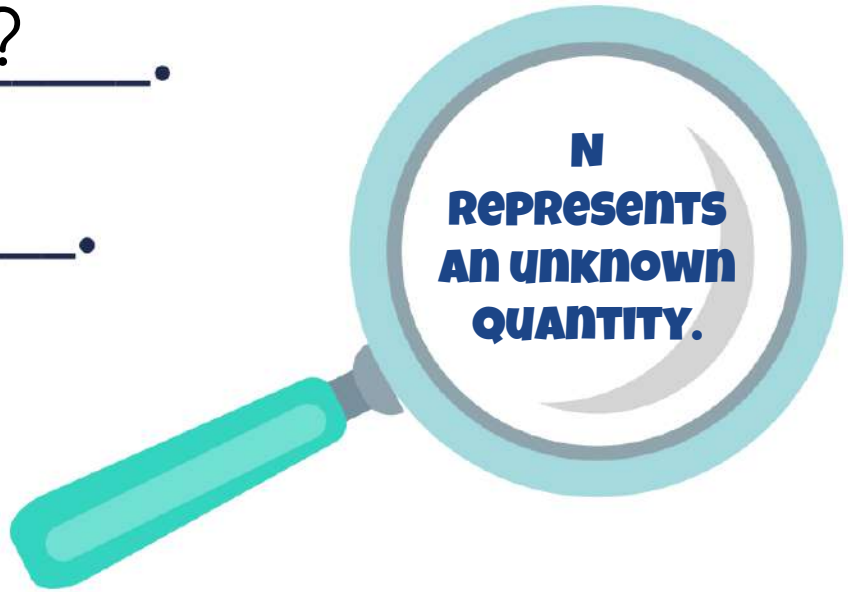
Guess my Mystery Number! (N)

N is a multiple of ___?___.

N is a factor of ___?___.

___?___ < N

N < ___?___.



Delete this text and write a new clue.

Guess my Mystery Number! (N)

N is a multiple of ___?___.

N is a factor of ___?___.

___?___ < N < ___?___.

Delete this text and write a new clue.

Delete this text and write a new clue.

Guess my Mystery Number! (N)

Delete this text and write a new clue.

Delete this text and write a new clue.

Delete this text and write a new clue.

Delete this text and write a new clue.

Guess my Mystery Number! (N)

Delete this text and write a new clue.

Share a Strategy!

Students Play

Free Educational Math Games

And Complete a Response!

*If you would like a full blown project for this idea, check this out.

Share a strategy you used in the game.

Explain a challenging part of the game.

Share something you learned or need to learn.

Edit your response to one of the options above.

Share a strategy you used in the game.

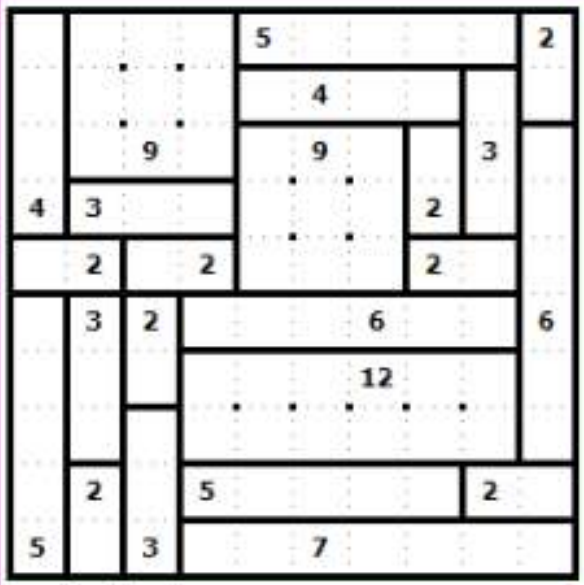
Explain a challenging part of the game.

Share something you learned or need to learn.

Edit your response to one of the options above.

Play Shikaku and explain what it has to do with "area". Use math vocabulary. What is the BIG IDEA here?

Type your response here..



What is the area of the sample? Edit text

Explain two different ways of finding it.

Edit text

Math Games Grid:

Place Value Fugitives

This is part of a printable resource here.
Please be sure to download for more directions & tips.

A great task to introduce deeper place value ideas
and easy to level up for a sophisticated challenge!

Place value is e-v-e-r-y-t-h-i-n-g!
For more ideas and tips, read the blog post.

PLACE VALUE FUGITIVES **SHERIFF'S REWARD!!**

WANTED

35

Don't be fooled!

Numbers can take on MANY different forms in the blink of an eye!

The only thing rascally numbers cannot change... their VALUE!

This number was last seen looking like: edit

This number has also been known as: edit

Don't be fooled if you run into this disguise: edit

This flexible number could take this form: edit

PLACE VALUE FUGITIVES **SHERIFF'S REWARD!!**

WANTED

NUMBER OF THE DAY HERE

Don't be fooled!

N

Numbers can take on MANY different forms in the blink of an eye!

The only thing rascally numbers cannot change... their VALUE!

This number was last seen looking like: edit

This number has also been known as: edit

Don't be fooled if you run into this disguise: edit

This flexible number could take this form: edit

PLACE VALUE FUGITIVES **SHERIFF'S REWARD!!**

WANTED

"ONE HUNDRED NINE"

109

Don't be fooled!

Numbers can take on MANY different forms in the blink of an eye!

The only thing rascally numbers cannot change... their VALUE!

This number was last seen looking like: 10 tens and 9 ones

This number has also been known as: 1 hundred and 9 ones

Don't be fooled if you run into this disguise: 99 ones and 1 ten

This flexible number could take this form: 5 tens and 59 ones

WANTED

1,524

Don't be fooled!

"ONE THOUSAND, FIVE HUNDRED TWENTY-FOUR"

Numbers can take on MANY different forms in the blink of an eye!

The only thing rascally numbers cannot change... their VALUE!

This number was last seen looking like: 152 tens and 4 ones

This number has also been known as: 100 tens and 524 ones

Don't be fooled if you run into this disguise: 15 hundreds and 24 ones

This flexible number could take this form: 14 hundreds and 124 ones

WANTED

"FORTY-TWO ND FIVE TENTHS"

Don't be fooled!

42.5

Numbers can take on MANY different forms in the blink of an eye!

The only thing rascally numbers cannot change... their VALUE!

This number was last seen looking like: 4 tens and 25 tenths

This number has also been known as: 425 tenths

Don't be fooled if you run into this disguise: 32 ones and 105 tenths

This flexible number could take this form: Forty-two and a half

The Answer is....

For more problem solving ideas and tips,
read the blog post.

The answer is:
12 kittens

Question 1

Teachers,

Edit the "answer" for your kids. You can also be more specific with notes like:

For Question 1, the quotient is 12.
For question 2, the difference is 12.

This is a great way to reinforce vocabulary!

This is a ready-to-go opener, or a fast finisher enrichment worthy task.

Question 2

The MATH VIKING

The answer is:

3.6 meters

Question 1

Question 2

The answer is

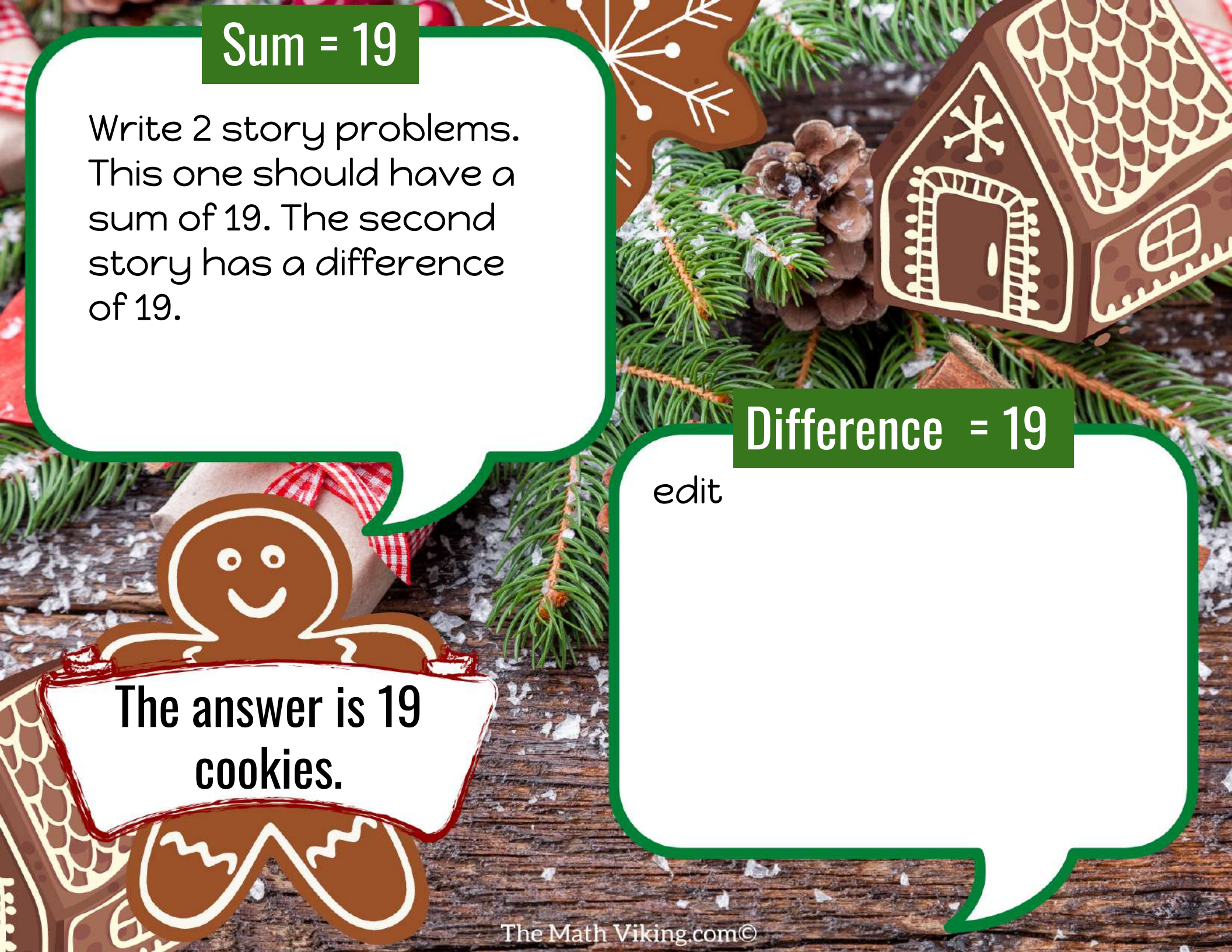
6 HOURS

What is the question?

Edit

Sum = 19

Write 2 story problems. This one should have a sum of 19. The second story has a difference of 19.



The answer is 19 cookies.

Difference = 19

edit

Which One Doesn't Belong?

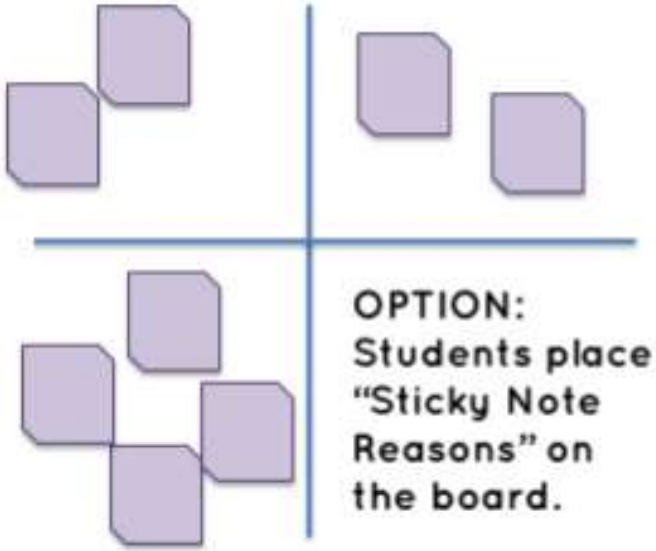
TEACHERS: If you are not familiar with this FABULOUS reasoning activity, check out http://wodb.ca/ and http://mashupmath.com/blog/2017/10/16/why-you-should-be-using-wodb-to-ignite-student-thinking-in-math

All answers should be accepted. The idea is to get kids analyzing and explaining and predicting the reasoning of others. This is one place where they are never wrong. However, they should understand that if their reasoning is that a number is odd, then all of the other numbers should be even.

These WODB Coloring & Reasoning packs provide so many options:

1. A **soft start** to the day
2. A relaxing **transition**
3. Art & math connection
4. **Connecting** reasoning about numbers with reasoning about other things.
5. A **beautiful display** for the bulletin board

W.O.D.B?



OPTION: Students place "Sticky Note Reasons" on the board.

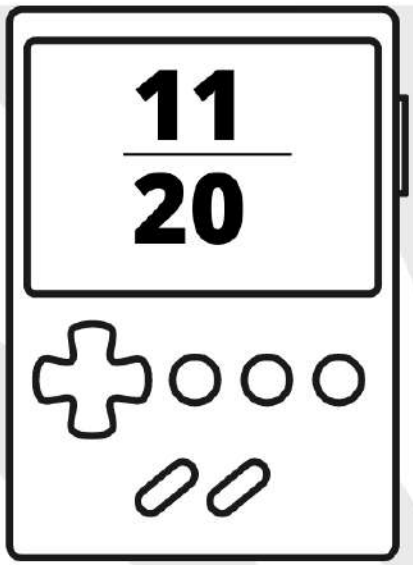
OPTION: Have students stand in 4 corners according to their choice. Predict others' reasoning!

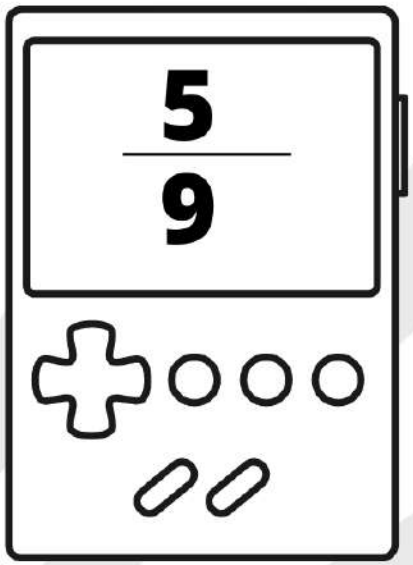
Math Viking

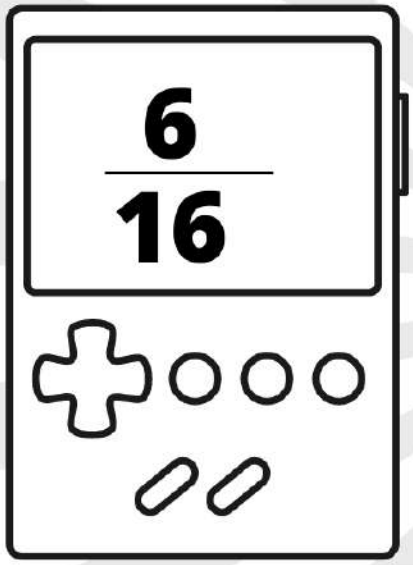
W.O.D.B?

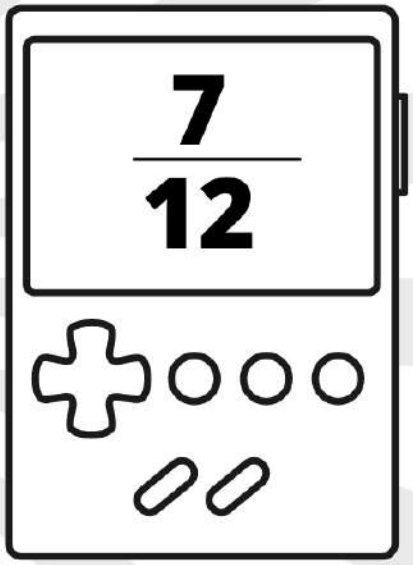
W.O.D.B?

W.O.D.B?









Create your own W.O.D.B?

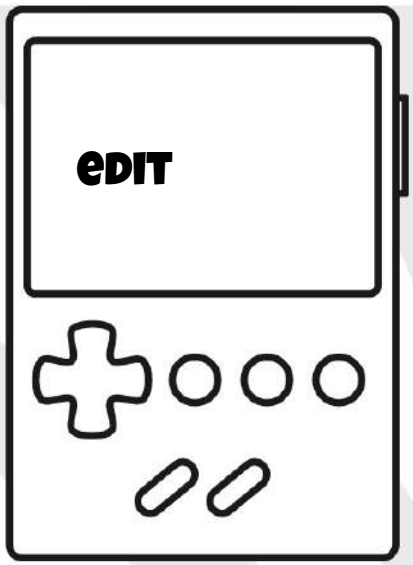
Have partners or small groups brainstorm "what is important to consider" when creating this task?

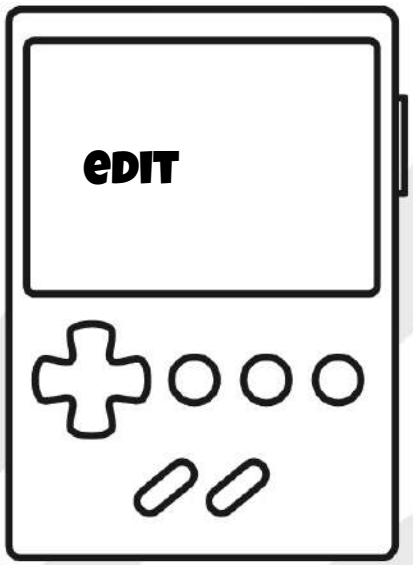
Students can combine their efforts to create a slideshow doc or a collection of posters.

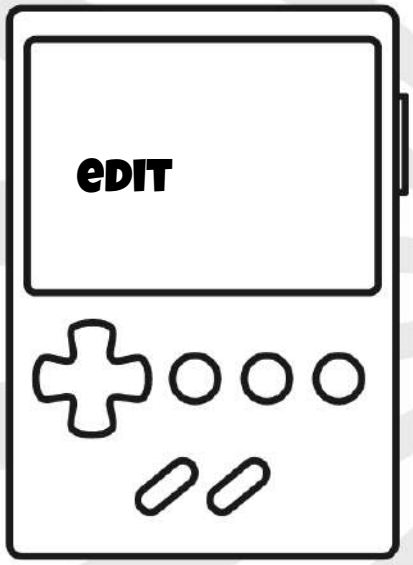
Tip: If students are having a hard time, start with a collection of 3 instead of 4.

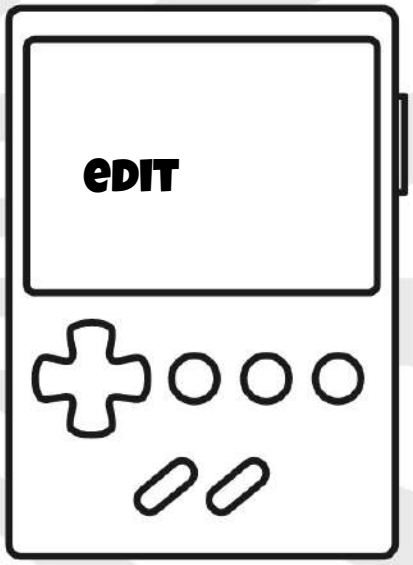
And check out this option!

W.O.D.B?

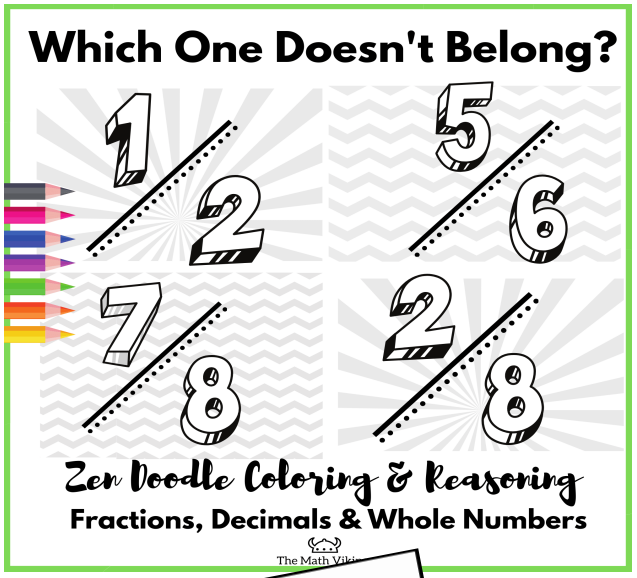


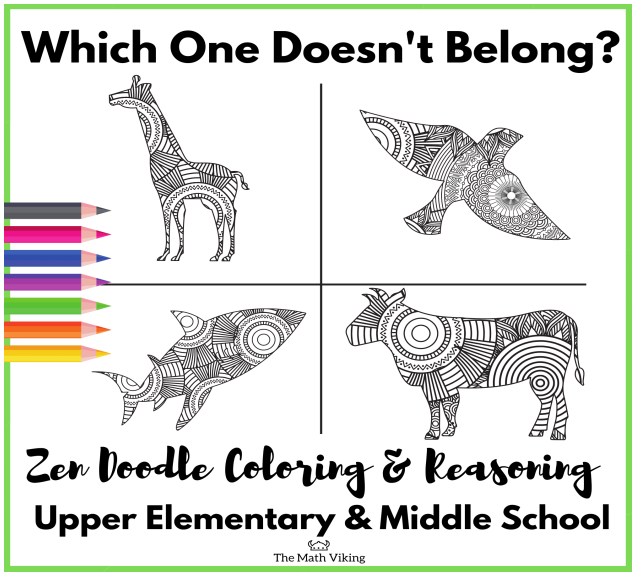


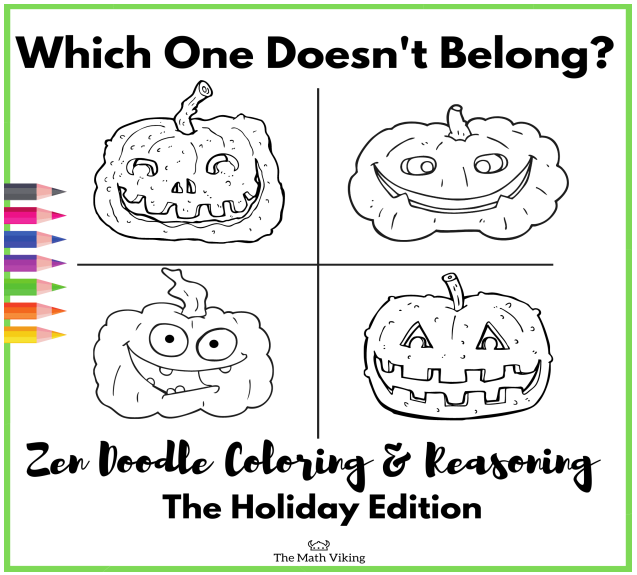


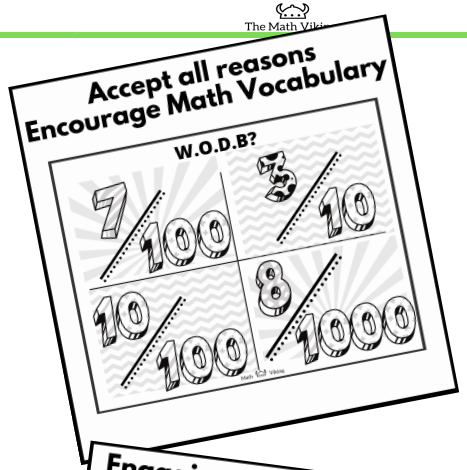


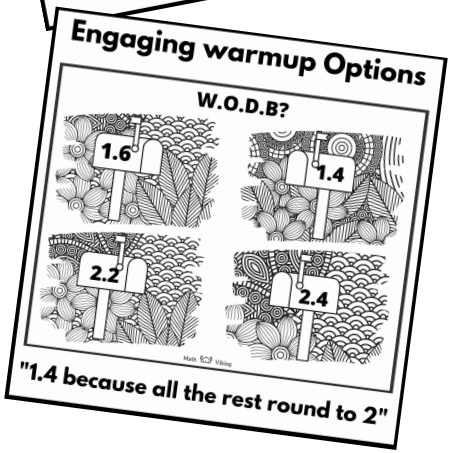
For more Zendoodle W.O.D.B. pages, check out these sets.

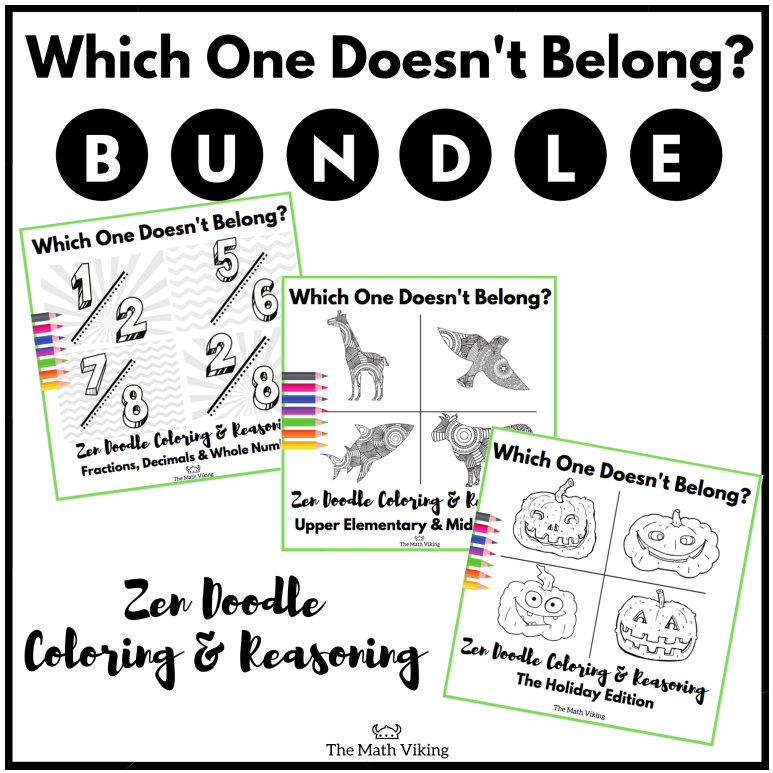




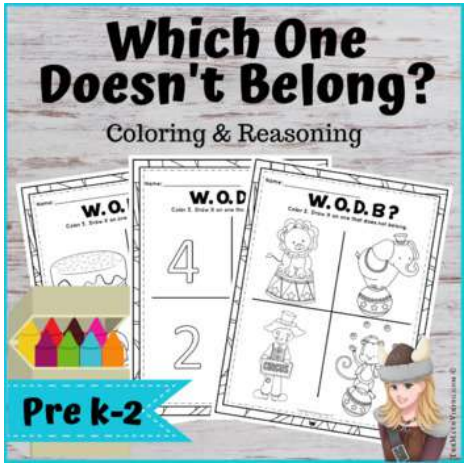








And for the one that started it all for K-2 click here.

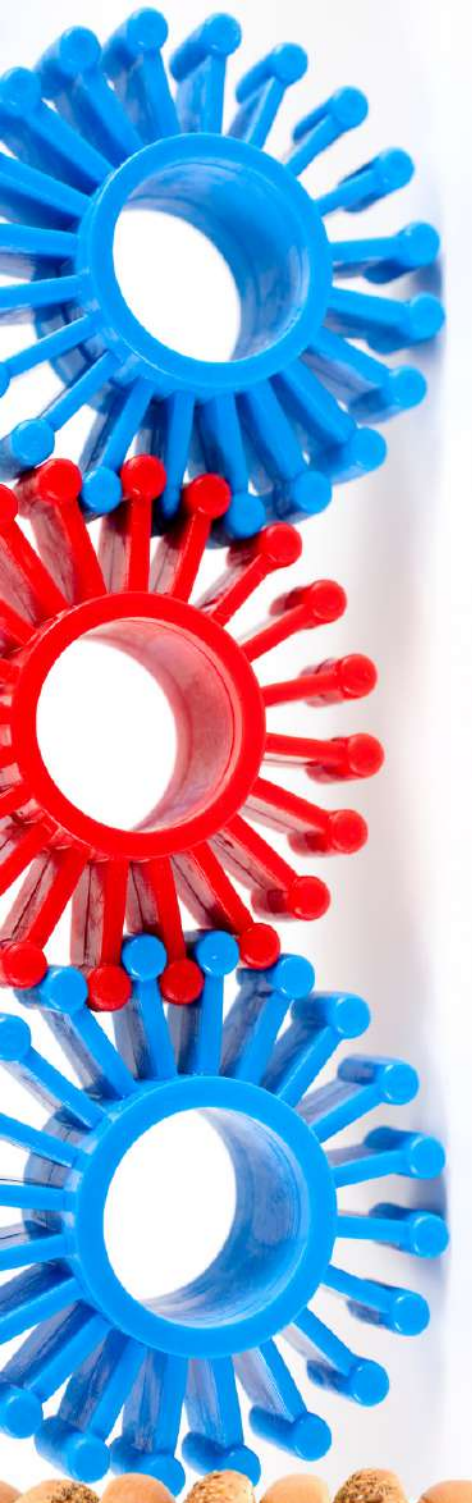


Pico Fermi Bagels

Try this as a whole class!
(For younger grades, you could start with a 2 digit number)

You can print the reminder cards and use pencil & paper
or you can use the digital recording sheet.

After a few rounds, students can play on their own.



PICO FERMI BAGELS

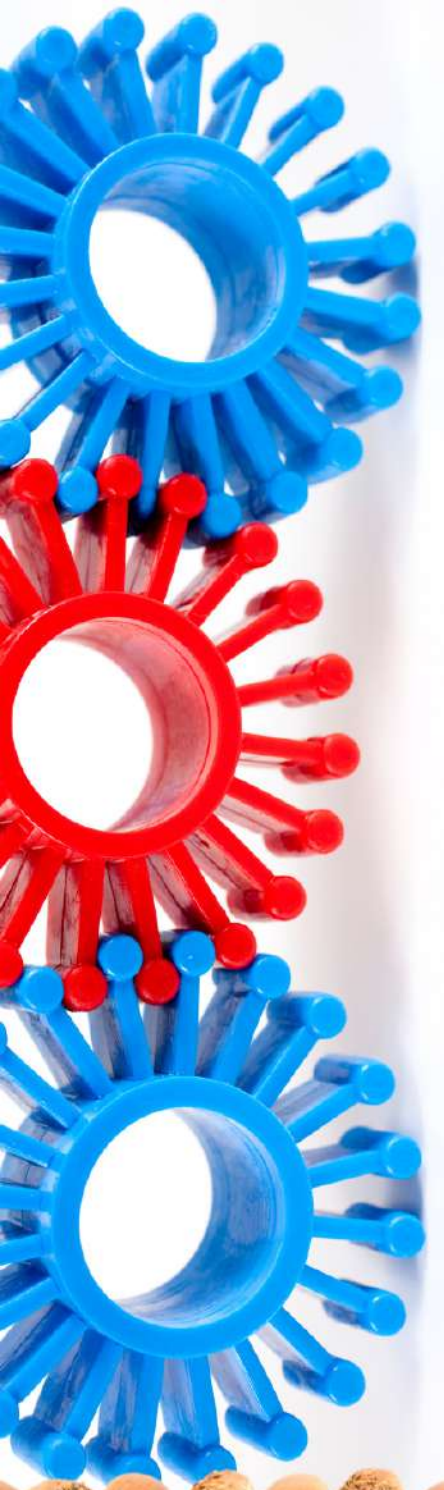
THE ULTIMATE NUMBER GUESSING GAME!

Your teacher will write down a secret 3 digit number without any *repeated digits*.

You will guess the number. With each guess, your teacher will reply with some combination of

“PICO, FERMI or BAGELS”

Options: Warm up with a 2 DIGIT number.
Level up with a 4 Digit number.



PICO FERMI BAGELS

THE ULTIMATE NUMBER GUESSING GAME!

If the guess has no numbers correct, the response is: "Bagel."

For *each* correct digit correct that is in the wrong place value, the response is: "Pico."

For each correct digit in the correct place the response is: : "Fermi."

For each guess and response, players will keep a record and use the information to guess the number.

PICO FERMI BAGELS

OPTIONAL RECORDING SHEET

0 1 2 3 4 5 6 7 8 9

@TheMathViking

PICO FERMI BAGELS
SAMPLE ROUND OF GUESSES

As an example, lets say that you thought of the secret number 489.

Guess 1: 362 "Bagel" – no digit is correct.

Guess 2: 820 "Pico" – the 8 is in the wrong place.

Guess 3: 418 "Pico Fermi" – the 8 is in the wrong place, the 4 is perfect.

Guess 4: 518 "Pico" – the 8 is in the wrong place.

Guess 5: 487 Fermi Fermi" – the 4 and 8 are in the correct place.

Guess 6: 489 "Fermi Fermi Fermi – all digits are correct! YOU WIN!

0 1 ~~2~~ ~~3~~ 4 5 ~~6~~ 7 8 9

Keep a record of your guesses and responses! Cross out numbers you "prove out" or create your own system of MODELING WHAT YOU KNOW and what you think you might know.

@TheMathViking

PICO

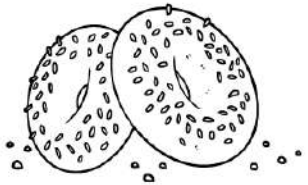
One correct digit, but not the correct value.

FERMI

One correct digit in the correct place!

BAGELS

Nothing. Nada. Zilch. Zero



*Optional reminder cards that players can also use for responses during small group games. Play 1:1 or 2:2. In larger groups, players take turns making the number.

*Give each group three of these sheets to cut into cards.

*Let Amazon Alexa run the game. :D

"My class loved these projects. We had a few ideas of our own to continue the fun. I thank you for the resources and the inspiration!"

- Scott, 6th Grade Teacher TPT Buyer

Click Here for: Grade 3-6
Enrichment Projects

"Games are kind of my jam."

-Math Viking

Click Here for: Grade 3-6
Fraction Game Bundle

These games are great! This really helped to fill in the gaps and help students conceptualize fractions.

- Cheryl & Jen TPT Sellers

Name:

pull your WEIGHT

7.2 kg

Determine the weight of the objects. Tell how you decided.

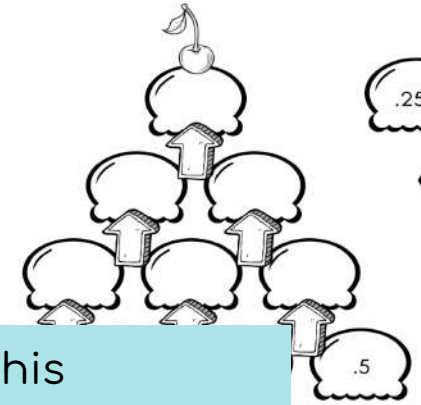
 = _____

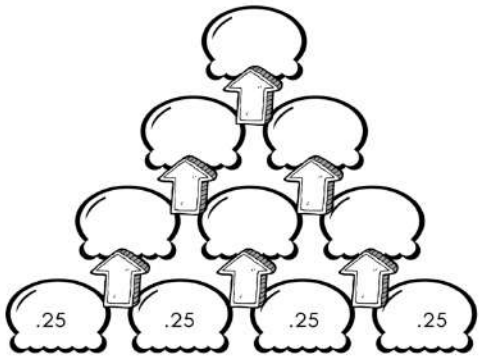
 = _____

Name:

P U Z Z L E

"Calories are additive."



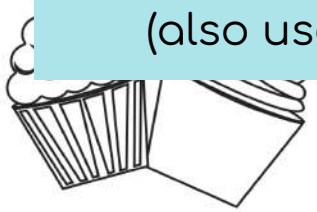


What do you notice about the numbers used?

Download this
printable PDF sample!
From these enrichment packets
focusing on FLEXIBILITY with
Grades 4-6 standards.
(also used in Grades 7/8)

Name:

The answer is 3/8.
What is the question?



Mystery Number (N)

The difference of the numerator and the denominator is 21.

N=

The numerator is 1/8 of the denominator.

Use the clues to solve for N. Then WRITE THREE additional clues!

N is equivalent to $\frac{45}{360}$

The MATH VIKING

Thank you for your purchase!

"The reason I started Math Viking was to change the game. For me, math was never fun because I felt dumb. I want my students to ENJOY MATH and learn that solving problems takes persistence."

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 you1

01/14/2021 | Amber B.

100 Number Dash! 100th Day Counting & Skip Counting Gam...

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

MATH IS FOR *Exploring!*

A clickable grid with the best FREE Math Games for YOUR STUDENTS! And another grid filled with the best teaching resources FOR YOU!

WHAT IS THE MULTIPLICATION STORY?

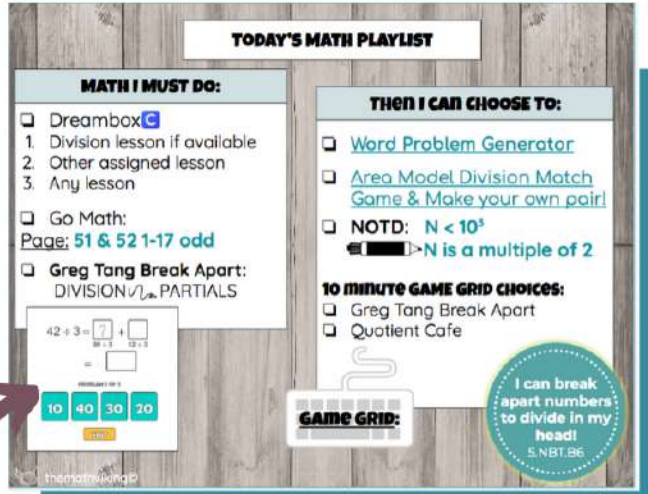
The answer is one third of the dozen eggs.

What is the question?

MATH VIKING *Resources*

SUBSCRIBE

Your welcome package includes 150 Real World Photos to Inspire Problem Solving AND over 50 Math Playlist & Lesson Plan Templates! FREE!



TheMathViking.Com