Which Number Does Not Belong?

Grab a post-it note and share why one of the numbers **does not** belong. Find the corresponding easel and post your post-it!







Reveal Mathematics Information Night



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Which Number Does Not Belong?



Which Number Does Not Belong?

*The only number whose digits don't add up to 7.

*The only single digit number.

*The only number with a monetary value (25 cents).

*The only number that is the sum of 2 consecutive squares.



*The only even number.

*It is the only number that is a square of a square.

*The only number that is not a perfect square. *The only number that is prime.

Math Vertical Team

- WSSD Educators from K-12: teachers, specialists, administrators.
- Gathered and collaborated on best practices in math education.
- Arrived at a common vision for the mathematics program for the Wallingford Swarthmore School District.

What could they be looking at?



What Do You Notice? What Do You Wonder?



What Do You Notice? What Do You Wonder?

-that we made 3 - what the next worms and they are all worm will look like? different sizes - if I could make · I million day -We Used different shapes -triangles and squares, too · 5 day 100 day - the worm gets bigger when we add a square -if the worm can - puerutime we made a new Keep growing? worm we added 1 square - if the worms could be a pet or if you could take it out to dinner with you? - there was a pattern - 2 triangles, 3 squares -it grew when we added a -how cars are made? -how triangles and square are made? Square - triangle, square, triangle - what would happen if the pattern would continue?

Our Search: Purpose & Output

Philosophy

- Constructivist/discovery/exploration/kids learn by doing
- Disequilibrium is a sign of learning
- Everyone is a mathematician/identity

Non-Negotiables (Needs)

- Equity lens, belonging
- Hands-on activities/manipulatives included/ real-world problem solving
- Wide Walls High Ceiling
- Standards-Aligned
- Resources to support differentiation

Wants

- Online component (resources, tools for students and families)
- Implementation fidelity



Click the picture to read the article!

Reveal MATH®

Reveal Math Programs





How are they the same? How are they different?



Math is losing to broccoli...

56% of kids would rather eat broccoli than do math!



The Fix?

- Spark curiosity!
- Encourage persistence.
- Promote a growth mindset.



Typical Day

Number & Sensemaking Routines

Exploration

Practice & Assess

Work Together

How can you determine the volume of this box?





Reflect







Differentiation

Reveal Math offers a wide range of both hands-on and digital tools that help teachers tailor their instruction to meet the needs of all students.

Hands-On Learning Tools

Small group reinforcement activities



Hands-on extension activities

Color by Number he art club asks students to draw and color a picture. 720.00 he pictures will be used to decorate the school row a picture of your favorite a Divide your nicture into parts Make rules for how to color th Class Celebration Write a 3-digit number in eac Switch pictures and rules with Color your partner's nichure u heck each other's wor $(\mathbf{\hat{e}})$ A Lot to Recuc Impaine that your class is saving tickets party. You earn tickets by helping in the Each week, a city recycling center records the number of icket is worth 100 points. A green ticket pounds of recycling it gets. The manager then writes a coints. A yellow ticket is worth I point. Ye report. The report helps the city see how the recycling 50 points to earn the party. program is going List at least 7 ways to earn tickets. W Use the info tickets and points each task is wort Create at least 2 plans for how your nough points to have the parts Order the moterials collected from least to greates Compare the amounts of materials using symbol What is another way you can display the data? Inclus it in your report Make suggestions for how the city can increase th amount of recycling it receive

Targeted Skills Support



Differentiation

Hands-On Learning Tools

Reinforcement, additional practice, and extension pages

Review					
You can gro	oup 10 tens to	make I hundre	d.		
Emma has I 10 stickers (does Emma	Lesson 2-I - Extend Thinking Understand Hundreds Name				
You can use of stickers.	Mrs. Blake g shows the st	ives stickers to ickers they hav	her helpers. A p	ooste ar.	
		Mrs. Blakes' Helpers			
		Name	Stickers		
		André	400		
Emma has I		Javier	308		
		Rina	100		
vnat is the		Tai	500		
-88		Malik	209		
	I. Mrs. Blake has a sticker book with 10 stickers on each page. How many pages of stickers do she need to use to give Rina stickers? Explain your thinking.				
	Review You can gro Emma has I IO stickers (does Emma You can use of stickers. Emma has I Vhat is the	Review You can group 10 tens to Emmo has I Lesson 24 - 1 U stickers Guddes Emmo You can usx Mrs. Blake g aboves the st	Review You can group 10 tens to make I hundre Lesson 2-1 - Extend Thinking 10 stickers, Von Can UN Mark, Blake gives stickers to shows the stickers they how Mark, Blake gives stickers to André Javier Limit L.Mrs, Blake hos a sticker	Review You can group 10 tens to make I hundred. Emmo has U stickers Mr. Blake gives stickers to her helpers. A 1 mma has I that is the U the state of the state o	

On-Level Extra Practice



Game Station for continued skill practice



Differentiation Digital Tools

Digital Game Stations



Replay math videos for each lesson

Extension Web Sketch Explorations







Accessing Reveal at Home

^		RevealMATH		
Home	To Do			
Lessons Past Work	•••	Digital Station: Batting Practice (Add and Subtract Decimals) Due: 10/24/2024	Let's Go!	
	eToolkit	Glossary	Digital Station Center	
	Interactive Student Edition: Grade 5, Volume 1	e Interactive Student Edition: Grade 5, Volume 2	Libro del estudiante, Edición impresa: Grado 5, Volumen 1	

When accessing Reveal at home, you will have access to:

- Any assignments assigned by the teacher
- 🖵 eToolkit
- Glossary
- Digital Station Center (complete digital game library)
- Interactive Student Editions
- Unit and Lesson Resources
 - Family Letter for each unit
 - Math Replay Videos

Click here to access login directions



Let's do some math together!





All vertices must be ON a dot







Student Agency

- \Box Entry Level \rightarrow Challenge
- □ Struggle & Sprinkles of Hope
- Don't Reveal the Answer
- Social





"The only way to learn mathematics is by doing mathematics." -Paul Halmos



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(1)

a1r 11-1 2ab + b2



And = Rudy

"Many parents have asked me: What is the point of my child explaining their work if they can get the answer right? My answer is always the same: Explaining your work is what, in mathematics, we call reasoning, and reasoning is central to the discipline of mathematics."

—Jo Boaler