

00:17:47 Trena Wilkerson: Hello from Waco, TX!
00:17:54 Christina Hall: Hello from Yuma, AZ
00:18:00 Eme Grace Suarnaba: hello from Texas
00:18:01 Anne Feeney: Barnegat, NJ
00:18:02 GARRETT ENGLISH: Howdy from Amarillo, TX!
00:18:03 Catherine VanNetta: Hello from Baltimore, MD!
00:18:05 Latasha Little: Hi! Latasha from Chicago
00:18:06 DeShonda Thigpen: Hello from Tennessee
00:18:06 Chonda Long: Hi Everyone!
00:18:06 Natalie PIpe: Western Colorado
00:18:07 Anne Agostinelli: Hello from Chicago! :)
00:18:07 Catherine Bronikowski: Hello from Milwaukee WI!!!
00:18:07 Samantha Bustos: Collierville, TN
00:18:08 Beth Roark: Cincinnati, OH
00:18:09 Michelle Webb: Greetings from Nashville TN
00:18:09 Tanya Landry: Hi from Baton Rouge
00:18:10 Tien Huynh-Dinh: Tien from Baton Rouge, LA
00:18:10 Leslie Texas: Hi fro Louisville, KY
00:18:11 Heide Kaminski: Michigan
00:18:11 Ken Krehbiel: Hi Patrick, from Washington DC
00:18:11 Ronald Austria: hi from NC
00:18:11 Nyla Moore-McCreary: Nyla Moore-McCreary, Tacoma, WA
00:18:12 Lora Deiter: Lora from Dickson, TN
00:18:12 Marilu Deal: Ottawa, Ontario, Canada
00:18:12 Jorge Veloso: Hi! This is Jorge Veloso from Dundo city, Angola.
00:18:13 Tammy Eplion: Virginia
00:18:13 Veronica Kwok: Hey! Queens, NYC
00:18:14 Melissa Forde: Youngstown Ohio
00:18:14 Carol Matsumoto: Hi from Winnipeg
00:18:15 Milagros Smith: hello, from Ocala, FL
00:18:15 Cindy Luper: Hi from Arkansas
00:18:15 Lyn Pizzano: Hello from NH
00:18:16 Katherine Stanford: Kathi Stanford from Farmington, New Mexico
00:18:16 Brandi Fleckenstein: Hello! Brandi from Burnsville, NC!
00:18:16 CHERRITA ALLEN: Pittsburgh PA
00:18:16 Deniz Çakır: Greetings from İzmir,Turkey
00:18:16 Ashleigh Walton: Salisbury, NC
00:18:16 Diane Anderson: Hi...from Massachusetts
00:18:16 Chrystina Harich: Hello from Salt Lake City UT
00:18:17 Emily Kavanagh: Hi from Columbia, MD
00:18:17 Tina Hill: Howdy! from Tri-Cities TN
00:18:17 David Martinez: Hello from New Mexico
00:18:17 Kay Wohlhuter: Hi from Duluth, MN
00:18:17 Stevie Simonsen: Racine wisconsin
00:18:17 Kathleen Morris: good evening from northern virginia
00:18:17 Mohamed Jamaludeen Thirapusa Mohaideen: Good evening! This is
Mohamed from CT
00:18:17 Russell: Hello from Maine!
00:18:18 Janice Magauay: Janice Magauay from Maryland
00:18:18 Shannon Hammond: Worcester Massachusetts

00:18:18 Lesly Brown: Hello, from Tennessee!
00:18:18 Latrenda Knighten: Greetings from Baton Rouge, LA
00:18:19 Shannon Reider: Hello from Nashville, TN!
00:18:20 Stephenia Courtney: Hello from Las Vegas, NV
00:18:20 Anna Riabtsev: Alexandria, Va
00:18:20 Joanmarie Kulinka: From Joan Virginia Beach, VA
00:18:21 Dixie Viesca: Las Vegas, Nevada
00:18:21 Nely Ara-is: hi from Norfolk,VA
00:18:21 michael Lanstrum: Welcome from Cleveland, OH
00:18:22 Elizabeth Sasse: Greeley, Colorado
00:18:22 Janice Holland: Janice Holland from Suffolk, VA
00:18:22 Patti Gawronski: hi from
00:18:22 C Robertson: Hello from Reno, NV
00:18:22 Rachel White: Hi from Southern Maine.
00:18:22 Doreen Ho: Doreen Ho -- Hilo, Hawai'i
00:18:22 Beverly Krumpe: Hello from Paris, TX
00:18:23 Laurie Walker: Greetings from Northampton MA!
00:18:23 Angelica Livingston: Va Beach
00:18:24 Cathy Chaput: Hi from Guelph Ontario
00:18:26 Kelli Freiwald: hello from PA
00:18:27 Quianna Watkins: Decatur, GA
00:18:27 Cristina Wong: Hi! from Torrance, CA
00:18:27 Rita Shamrock: Rita from Senoia, GA
00:18:28 Lisa Lambuth: Hello from La Mirada, CA
00:18:28 Deanna Richardson: Hello from Rapid City, SD
00:18:28 Nyla Moore-McCreary: Hi from Seattle/Tacoma area!!!
00:18:28 Warren Ledbetter: Warren Ledbetter Portales, NM
00:18:28 Kelli Epperson: Hello from PA
00:18:29 Karen Campbell: Karen- Saskatchewan, Canada
00:18:30 Patti Gawronski: Hi from Texas!
00:18:30 De Zhang: Greetings from Minnesota.
00:18:32 Diane Leighty: Hello from Richmond, Virginia
00:18:32 JoAnn Hurt: JoAnn from Indianapolis, IN
00:18:34 Wendy Kraft: hi from WA
00:18:34 Katie Gibson: Hello from Oregon
00:18:35 Pamela Liegl: Hi from Pamela in Streator, IL
00:18:36 William Luke: William Luke Cent ral Texas
00:18:38 Heidi Nunes: Hello from Merced, CA
00:18:39 Jet Yeung: Hello Everyone--Jet from Henderson, Nevada
00:18:39 Stephanie Sikes: Hi from Arkansas
00:18:40 Tracy Wood: Clermont, Florida
00:18:41 Maren McMartin: Hola from MN
00:18:41 Mary Johnson: HI from Pensacola, FL
00:18:42 Crystal Adams: Hi from Mansfield Tx
00:18:43 Chonda Long: Hello everyone! Chonda from Northern, VA
00:18:43 Noeimi Vizcarra: Hello from San Diego, California
00:18:43 Cherri Wilson: Hi from Suffolk, VA!
00:18:45 Milagros Carbonera: Hi this is Mrs. Carbonera from WCPS
Goldsboro
00:18:49 Shiv Gaur: Hi from Shiv (Kazakhstan)

00:18:49 Toni Galassini: Chicago, IL
00:18:49 Leanna Foreman: Hi from Charlotte, NC
00:18:50 Rossini Ortega: Hello everyone from the Philippines
00:18:52 Laurie Skaggs: Hello from Mansfield, TX
00:18:54 Jeff Williams: Jeff - 10EC
00:18:54 Sherry *Bovey: Hello from central, Louisiana.
00:18:55 Sherry Dodd: Hi from NC
00:18:55 Patrick Montague: Hello from Weslaco, TX
00:18:56 Latasha Bryant: Hello From Hendersonville, TN
00:18:58 Catherine Anderson: hi from Virginia Beach, VA
00:18:59 Denise Griffiths: Denise Griffiths from Wilmington, DE
00:18:59 Jaclyn Murray: Hi from Cumming, GA
00:19:00 Hong Pun: Hi from San Jose, California
00:19:02 Terri Binder: Terri from Germantown, MD
00:19:02 Kristin Messenger: Hello from Las Vegas
00:19:05 Kayla Villarreal: Hello from Texas!
00:19:07 PATRICK GUERRA: Hi from Philippines
00:19:07 Sharon Black-MacKinnon: Good evening from New Brunswick Canada
00:19:07 John Taylor: J Taylor Martin County Schools in NC
00:19:11 Kathryn Prater: Grundy County tn
00:19:12 Melissa Abdoo: Hi from Burnt Hills, NY.
00:19:13 Yin-Tzu Huang: Hi from CA
00:19:15 Esther Winikoff: hello from Baltimore!
00:19:16 Daniel Irving: Hello from North Providence, RI.
00:19:20 Josephine Snyder: Hello from PA!
00:19:21 Kayla Blankenship: Hi from Orlando, FL!
00:19:25 Noe Eugenio: Hello from the Philippines
00:19:25 Shelley Hunter: Hello from New Brunswick, Canada
00:19:25 Jan Back: Hello, from Jan Back in Hampton, Tennessee
00:19:27 Kay Mason: Hi from Kay in Florida
00:19:28 Jennifer Webb: Hello from Texas!
00:19:28 Sandra Corbacioglu: hello from northeastern ohio
00:19:30 Shari Sklar: Hello from Arizona.
00:19:31 Skip Fennell: Hi from Westminster, MD
00:19:32 Jennie Brown: Hi from Montgomery, AL
00:19:35 Susie Loh: Hi! Pasadena, CA
00:19:36 Tianhong Ying: Hi, from New York.
00:19:41 Janet Jimenez: Good evening everyone from NYC
00:19:45 Nadia Messadi: Hello from Fayetteville, Arkansas!!
00:19:46 Charleta White-Fletcher: Hello
From Rocky Mount NC
00:19:48 Olga Kosheleva: Hello from El Paso, TX
00:19:50 Sindhu A Muralidharan: Hello from Mumbai, India
00:19:52 John Simons: John from Milwaukee, WI. Stay HOME!!!
00:19:52 Susan Lear: Hello from SC
00:19:53 Kelly Curtis: texas
00:19:54 Terri McCarthy: Hi from Danbury, CT
00:19:54 Laura Tomas: Hi from South Florida!
00:19:55 Peta-Gaye Benjamin: Hi from Edenton NC
00:19:59 Molly Rawding: Hi from Massachusetts!

00:20:01 Jennifer McMillen: Hi! I am from Fort Worth, TX.
00:20:01 Bonnie Angel: Hello from north Georgia
00:20:02 Monique Cabellon: Hello from Renton, WA
00:20:03 Michael Brown: i from Cumberland, RI
00:20:03 Amy Tucker: Hi from Wayne, Maine
00:20:04 Cara Oliver: Hi from Indiana
00:20:04 Linda Rodriguez: Yuma, AZ- hi
00:20:05 Nancy VandePas: Hi from Saratoga Springs
00:20:05 Mary Hamilton: Hi from Washington, DC
00:20:06 Christy Woody: Hi from VA
00:20:06 Jean Young: Aloha from Hawaii!
00:20:06 David Barnes: Yes, you are automatically muted.
00:20:07 Kelley Manning: Hiii! Kelley Manning, Inglewood USD
00:20:07 Patrick Vennebush: Hi, from Portland, OR!
00:20:08 Christina Tully: Hi from Las Vegas, NV
00:20:09 Scott Armstrong: Hello from London, Ontario, Canada
00:20:09 Tenisha Marcel-Herbert: Hi from Washington DC
00:20:09 Andrea Duris: Hi From Granville Massachusetts
00:20:11 Donna Bernens-Kinkead: Bloomington, IN
00:20:12 Meg Susi: Hello from Old Saybrook, CT
00:20:12 Menchie Besa: Hi from Jacksonville, Florida
00:20:13 Kellie Sorrell: Hello from Chicago
00:20:14 Roberta Rotolo: Hello from Dallas Texas
00:20:14 Cindy Falla: Hi from Hoquiam, WA
00:20:16 Laurie James: Aloha from Oahu Hawaii
00:20:16 Amy Izor: Hello, from Petal, Mississippi
00:20:17 jeanine colwell: high from Newport nc
00:20:17 Ramona Hall: Hi from Charlotte NC
00:20:18 Sulafah Ansya Saskiyah: Hi from Indonesia
00:20:19 Katherine Dominick: Hello from NY!
00:20:20 Nicolette Nalu: Hi! Elementary Math Specialist from Bama.
00:20:21 Shelly Scheafer: Hi from Bend, Oregon
00:20:21 Gracemary Mannion: Hi my name is Grace Mannion from Mansfield
ISD!
00:20:21 Brandi Ledbetter: St. George, Utah
00:20:21 Robin Robinson: hi
00:20:22 Luzviminda Bayarong: Hi I'm from Maryland
00:20:24 Patricia Padgett: Hey from Florida
00:20:25 Cathy Inman: Hi from Tuscumbia, AL
00:20:28 Michelle Funai: Aloha from Honolulu, HI!
00:20:28 Tessie Menta: Hello from Stockton, California!
00:20:29 Jessica Adkins: Hi from Clinton TN
00:20:31 Jessica Gault: Jessica Gault, Dorchester County Schools Maryland
00:20:31 Stephanie Crocker: hello from GA
00:20:32 Kiera Bruce: Hello from NC
00:20:35 Kelly Ihrig: Hi from WA
00:20:42 Diane Thole: hi from bronxville NY
00:20:43 Hsiao-Ting Chiou: Hello from CA
00:20:46 BillyJean Smith: Hi from Lincoln DE
00:20:46 Erica Bagala: Hi from NY

00:20:47 Kathleen Williams: Hi from Naperville!
00:20:47 Barbara Knox: Florida
00:20:53 Jasmine King: HEY! from Laurel, MD
00:20:54 Brandy Gunels Johnson: Hey y'all!
00:20:55 caroline maserang: Hello from Southern Illinois
00:20:57 Elaine Boyer: Hello from Denver, Colorado
00:21:01 Maricris Magnaye: from Philippines
00:21:04 Janette Kiso: Hello from Hawthorne, CA
00:21:04 Brenna Fain: Hi from Seattle, Washington!
00:21:05 Karisma Alexander: HI from the Bronx,NY
00:21:12 Sharon Laahs: Hello from Scottsdale, AZ
00:21:14 Martisha Dunn: Martisha Richmond Virginia
00:21:16 Julia Marshall: Afternoon! I'm from Surprise, AZ
00:21:21 Pendo Nyanda: Hi from Pendo Nyanda
00:21:27 Kimberley Perez: Hi everyone! Kimberley Perez here from
Roswell NM
00:21:31 PATRICK GUERRA: Thanks a lot!
00:21:31 Staci Erickson: Hello from Seattle
00:21:32 Angelita Beltran: Hello, from Waukegan, IL
00:21:32 Terri Davis: Hello from Richmond, VA
00:21:32 lori goetz: Hi from TEXAS!
00:21:33 Lance Brauchla: Hi from Ege, IN
00:21:34 Kristy Allen: Hello from Cape Coral, FL
00:21:34 Kerrie Becker: Hello from Palmyra, PA!
00:21:42 SAPNA SHARMA: Hello
00:21:47 Bina Kachwalla: Hi from NZ
00:21:47 Kira Innes: Hello from Hamilton, Ontario
00:21:48 Angela Tseng: Hello from Los Angeles, CA
00:21:49 ELLA CABRERA: Hello Everyone!! Watching here from Philippines
00:21:53 Diosa Doane: Hello from Maui
00:21:55 Brenda Strassfeld: Hi from Brenda in Brooklyn
00:22:02 Larry Arnett: Hello from Harker Heights, Tx
00:22:07 Cecila Adamson: Hello from Georgia!
00:22:09 Margie Acabal: Hello watching from PH
00:22:18 Konnie Guthrie: Hello
00:22:18 ROSALYN BANTAY: Hello everyone from Philippines
00:22:22 Faith Peddie: Thanks for kicking us of Lorie!
00:22:22 Jamie Ward: Hello from Boone, NC
00:22:26 Jasmine King: 10q
00:22:26 Amy Lieberman: 10q
00:22:27 Cecila Adamson: 10q
00:22:27 Shiv Gaur: 10q
00:22:27 Sherry *Bovey: 10q
00:22:28 Yin-Tzu Huang: 10q
00:22:28 CHERRITA ALLEN: 10q
00:22:28 Lora Deiter: 10q
00:22:28 Michael Brown: you're welcome
00:22:29 Linda Rodriguez: 10q
00:22:29 Kelli Freiwald: you're welcome!
00:22:29 Staci Erickson: 10q

00:22:29 Katie Gibson: 10q
00:22:29 Shannon Hammond: 10q
00:22:29 Laurie Skaggs: 10Q
00:22:29 Liz Magno: 10q
00:22:30 Peta-Gaye Benjamin: 10q
00:22:30 Kathleen Williams: 10q
00:22:30 Kari Eggink: 10q
00:22:30 Chrystina Harich: 10q
00:22:30 Sharon Black-MacKinnon: 10q
00:22:30 Amy Tucker: 10q very much
00:22:31 Nancy VandePas: 10q
00:22:31 Bina Kachwalla: 10q
00:22:31 Faith Lowery: hey from Randolph County
00:22:31 Jessica Barrier: 0q
00:22:31 Ashley Edwards: 10q
00:22:31 Tracie Best-Harris: 10q
00:22:31 Heidi Nunes: 10q
00:22:31 Tenisha Marcel-Herbert: 10q
00:22:31 Josephine Snyder: 10q
00:22:31 Margie Acabal: 10q
00:22:31 Christy Woody: 10q
00:22:32 Kelly Ihrig: 10q
00:22:32 Rachel White: 10q
00:22:33 Deniz Çakır: 10q
00:22:33 Bonnie Angel: 10q
00:22:33 Charles Gumm: 10q
00:22:33 Beth Seyler: 10q
00:22:34 Marcella Curry: 10q
00:22:34 Chrstina Jameson: 10q
00:22:34 Milagros Carbonera: 10q
00:22:34 Laurie Skaggs: you're welcome
00:22:34 Carly Adams: 10Q
00:22:35 Noe Eugenio: 10q
00:22:35 Stephanie Rish: Hello from Charlotte NC
00:22:35 Kelley Manning: 10q
00:22:35 Melissa Luzano: You're welcome
00:22:35 Leslie Texas: 10q
00:22:35 BillyJean Smith: 10q
00:22:35 Lyn Pizzano: 10q
00:22:35 SAPNA SHARMA: 10q
00:22:35 Melissa Forde: 10Q
00:22:36 Nicole Kissell: 10q
00:22:36 PATRICK GUERRA: 10q
00:22:36 Shari Sklar: 10q, you're welcome!
00:22:36 Lance Brauchla: 10q
00:22:36 Maureen Kishbaugh: Haha
00:22:36 Pendo Nyanda: 10q
00:22:36 ROSALYN BANTAY: 10q
00:22:36 Louis Cicero: 10q
00:22:37 Konnie Guthrie: 10q

00:22:37 Skip Fennell: thank you
00:22:38 Larry Arnett: 10q
00:22:38 Nicole Rigelman: Hello from Portland, Oregon
00:22:38 Martisha Dunn: 10q
00:22:38 Katherine Stanford: 10q
00:22:39 Latrenda Knighten: 10q
00:22:39 Sandra Corbacioglu: 10q
00:22:39 Emily Kavanagh: 10q
00:22:40 Brandy Gunels Johnson: 10q
00:22:40 Quianna Watkins: 10q
00:22:40 Angela Tseng: ten q
00:22:41 Macobia Harris: 10q
00:22:41 Karisma Alexander: 10q
00:22:41 Catherine Bronikowski: TQ
00:22:41 Jamie Ward: 10q
00:22:42 Charleta White-Fletcher: 10q
00:22:44 Jasmine King: HAHAHahaha
00:22:44 Dixie Viesca: 10q
00:22:44 Jorge Veloso: 10q
00:22:46 Maureen Kishbaugh: You're welcome
00:22:46 Shelly Scheafer: 10q
00:22:47 Wanda Parker: 10q
00:22:47 Heidi Nunes: ha ha :)
00:22:47 Christina Capuano: 10q
00:22:48 Heide Kaminski: 10q
00:22:48 Kimberley Perez: 10q
00:22:49 MARIA THERESA R. ABUNDA: good morning from doha qatar
00:22:51 Deniz Çakır: LOL
00:22:51 Stephenia Courtney: 10q
00:22:52 Louis Cicero: 10q
00:22:53 April Flanders-Lee: 10q
00:22:54 Anne Booth: ha ha!
00:22:55 Faith Peddie: 10 q very much!
00:22:55 MARIA THERESA R. ABUNDA: 10q
00:22:56 Jasmine King: 10q for presenting!
00:22:57 cynthia klein: 10q
00:22:59 Gracemary Mannion: 10q
00:22:59 Tien Huynh-Dinh: hahaha 10q
00:23:00 Jessica Barrier: 10q
00:23:00 Vicki Roman: 10q
00:23:02 Jennifer Webb: 10q
00:23:03 Jet Yeung: 10q
00:23:03 Theressa Sawyer: 10q
00:23:07 Veronica Kwok: My AP Calc teacher did this: Always say 7Q+3Q and
not 7Q-3Q
00:23:12 Jasmine King: It's TERRIBLE

00:23:13 PATRICK GUERRA: Nice
00:23:16 Cassandra Gardner: Hello everyone from Jonesboro, GA
00:23:17 Chance Nalley: Chance Nalley, Ethical Culture Fieldston School;

Bronx, NYC

00:23:19 Shelly Jones: Hi 10q from CT
00:23:19 Kathy Woodward: Turner, Maine
00:23:20 ELLA CABRERA: Thank You (10q)
00:23:29 Sherry *Bovey: it is a square number.
00:23:30 Jennifer Webb: Perfect Square
00:23:30 Staci Erickson: Perfect square
00:23:30 Catherine VanNetta: perfect square
00:23:30 Amy Tucker: Wayne, ME
00:23:31 Melissa Luzano: There's also $\sin Q/\cos Q$
00:23:32 April Flanders-Lee: I
00:23:33 mike murphy: 10^2
00:23:33 Amy Lieberman: First 3 digit number
00:23:33 Kimberley Perez: centennial
00:23:34 Laura Partridge: Perfect square
00:23:34 Amanda Blake: perfect swuare
00:23:35 Angela Tseng: It's 10^2
00:23:35 Heidi Nunes: it can be written as 10^2
00:23:35 Leslie Texas: Perfect square
00:23:35 Yin-Tzu Huang: perfect square
00:23:36 Sharon Black-MacKinnon: perfect square
00:23:36 Janice Magauay: First three-digit number?
00:23:37 Lora Deiter: Perfect
00:23:37 Kathleen Williams: perfect square
00:23:37 Shelly Jones: It's a century!
00:23:38 Louis Cicero: Base 10
00:23:38 Jasmine King: 100%
00:23:39 Sandra Corbacioglu: perfect square
00:23:39 mike murphy: %
00:23:39 John Simons: It's 1 more than 99
00:23:39 Maureen Kishbaugh: ten squared
00:23:39 Rachel White: Perfect square
00:23:40 Marcella Curry: perfect square
00:23:40 Macobia Harris: perfect number
00:23:40 Cindy Falla: because we use a base 10 system
00:23:40 Skip Fennell: Important benchmark - place value
00:23:40 Kimberley Perez: square
00:23:41 Beth Roark: It's made up of 10, 10's
00:23:41 Ana Kochis: 3 digits
00:23:41 Christina Tully: It has many factors
00:23:41 Stevie Simonsen: perfect numner
00:23:41 Heidi Nunes: perfect square
00:23:41 Kristin Messenger: c note
00:23:42 Darci Evans: century
00:23:42 Lance Brauchla: Age I wish to reach!
00:23:42 Bonnie Angel: a century
00:23:42 Michelle Funai: It's the best bill :)
00:23:43 caroline maserang: It's a lot of fun!
00:23:43 Stephenia Courtney: perfect square
00:23:43 Heide Kaminski: perfect square

00:23:44 ELLA CABRERA: Percentage
00:23:44 Julia Marshall: perfect square
00:23:44 Charles Gumm: Perfect square
00:23:44 Emily Kavanagh: It is a perfect square
00:23:44 Dan Raguse: The age I plan to live to.
00:23:44 Shiv Gaur: 100%
00:23:45 Julia Jones: square
00:23:46 Latrenda Knighten: It's a square
00:23:46 Sandra Corbacioglu: basis of metric
00:23:46 Tenisha Marcel-Herbert: perfect square
00:23:46 Jasmine King: \$1.00
00:23:47 Taji Williams: percentages
00:23:49 SAPNA SHARMA: It is 100%
00:23:49 Megan Riley: It can be used in so many ways
00:23:50 Milagros Smith: 100 pennies
00:23:50 Mike Cooke: product. of two perfect squares
00:23:50 Bonnie Angel: a perfect score
00:23:52 Cecila Adamson: a whole
00:23:52 Terri Davis: Kids get so excited when they can count to 100!
00:23:52 Angela Tseng: It's even
00:23:52 Bina Kachwalla: Use it often
00:23:52 Ashleigh Walton: 4 quarters
00:23:53 Katherine Stanford: It's how old I want to leave to be
00:23:55 Chrstina Jameson: percentages
00:23:55 Karisma Alexander: 3 digit
00:23:55 Gracemary Mannion: It is related to all kinds of math.
00:23:56 Wanda Parker: Perfect score
00:23:56 Beth Roark: A+
00:23:57 Theressa Sawyer: decade
00:23:58 Doug Campbell: keeps it real
00:23:59 Nicole Rigelman: A power of 10
00:23:59 Sharon Black-MacKinnon: integer
00:24:00 Kelly Ihrig: 100%
00:24:01 Jorge Veloso: a multiple of 10
00:24:01 Sharon Bentkowski: easy to multiply or divide by
00:24:02 Martisha Dunn: Its 4 quarters
00:24:02 Sandra Corbacioglu: basis of our decimal system
00:24:02 Heidi Nunes: base 10
00:24:02 Janice Magauay: it represents perfect score? 100%?
00:24:02 Pendo Nyanda: is divisible to two
00:24:02 Carly Adams: Endless possibilities to use 100
00:24:04 John Simons: What are percents are based off of
00:24:05 April Flanders-Lee: I'm an elementary teacher...such a fun day
of school!
00:24:05 Taji Williams: has several factors
00:24:06 Guadalupe Alvidrez: It's the age my Dad is trying to get to.
00:24:07 Sharon Black-MacKinnon: boiling point
00:24:08 Emily Kavanagh: Century
00:24:09 Angela Tseng: Nice and even
00:24:13 Aileen Urbiztondo: Perfect score

00:24:14 Brenna Fain: It is an exciting day for a school year!
00:24:15 Cristina Wong: 10x10
00:24:24 Sharon Black-MacKinnon: yes there are
00:24:28 Sharon Black-MacKinnon: great game
00:24:29 Janice Magauay: Scrabble is my favorite too!
00:24:31 Martisha Dunn: Based on 10s
00:24:33 Elizabeth Hallahan: good afternoon! li ny here.
00:24:45 Robin Robinson: great celebration day in class!
00:24:56 Shiv Gaur: Lol!
00:25:02 Janet Jimenez: square number
00:25:04 Robin Robinson: :)
00:25:05 Natalie Fawthrop-Pooler: Amazing
00:25:08 Janice Magauay: it is special because its not easy to reach 100
years old
00:25:09 Jessica Barrier: 100 days in kindergarten is huge!
00:25:23 Rhonda Naylor: Great, Eli!
00:25:24 Angela Tseng: w0w
00:25:24 Janice Magauay: Lol!
00:25:25 Linda Rodriguez: I hear Dad's input
00:25:26 Shiv Gaur: wow
00:25:27 Noeimi Vizcarra: wow
00:25:31 Shelly Jones: Yeah Eli!
00:25:32 Melissa Luzano: YESSSSS ELI
00:25:34 Jasmine King: LMFAO
00:25:34 Katie Gibson: love this kid!!!
00:25:35 Latrenda Knighten: Yeah, Eli!
00:25:35 Jennifer Webb: HAHA!!
00:25:36 Leslie Texas: Love this
00:25:38 Martisha Dunn: great answer from your son
00:25:40 Konnie Guthrie: I also hear his dad through this.
00:25:41 Sharon Black-MacKinnon: Yay! Eli
00:25:41 Kimberley Perez: very nice!!!!
00:25:42 Wanda Parker: I like Eli"s thoughts!
00:25:44 Shelly Scheafer: That's awesome!
00:25:44 Danielle Bentley: Well alright, Eli! You better preach, Eli!
00:25:46 susan mitzner: I love your son.....
00:25:47 Mary Dugas: WOWS! mary, LA
00:25:47 Doug Campbell: good save
00:25:47 Amy Tucker: Thank you for sticking up for us!
00:25:48 Angela Tseng: 55
00:25:51 Bina Kachwalla: I do agree with him
00:25:58 John Simons: 55
00:25:59 Beth Snoop: 55
00:26:00 Shelly Jones: 55
00:26:00 Ronald Austria: 55
00:26:01 Bina Kachwalla: 55
00:26:01 Laura Partridge: 55
00:26:01 Rhonda Naylor: 55
00:26:02 GARRETT ENGLISH: 55
00:26:02 Shiv Gaur: 55

00:26:08 Jennifer Webb: 55
 00:26:09 J. Lyn Miller: 11x5
 00:26:09 Angela Tseng: There is a good math history behind it though
 00:26:11 Jamie Ward: 55
 00:26:14 Mike Cooke: 500500
 00:26:14 John Simons: A lot
 00:26:27 Anne Booth: I know Mr. Gauss!
 00:26:30 Sharon Black-MacKinnon: there is indeed
 00:26:31 Rhonda Naylor: 50050
 00:26:37 Rhonda Naylor: 5050
 00:26:38 Bina Kachwalla: 50050
 00:26:42 Bina Kachwalla: 50590
 00:26:46 Bina Kachwalla: 5050
 00:26:47 Shiv Gaur: 500500
 00:26:54 Barbara Knox: 5050
 00:26:57 Catherine VanNetta: arithmetic series
 00:27:00 Janice Magauay: 5050
 00:27:10 Betsy Smith: Does anyone notice the title is Gauss and check?
 00:27:11 Ramona Hall: 500500 and 5050
 00:27:15 Shiv Gaur: 5050
 00:27:19 Janice Magauay: 500500
 00:27:21 Yin-Tzu Huang: $(1+1000) \times 1000 / 2$
 00:27:24 Rhonda Naylor: 55
 00:27:25 Warren Ledbetter: 500×1001
 00:27:54 Marcella Curry: For 1000, 500500. For 100, 5050
 00:27:58 Laronda Raines-Langham: Sorry, I'm late...I had trouble getting in!
 Laronda from Mobile, Alabama
 00:28:09 Deniz Çakır: $(100 \times 101) / 2$
 00:28:34 Robyn Headifen: kia ora from New Zealand
 00:28:35 Shelly Jones: Love doing this with my students who are elementary school teachers!
 00:28:42 Konnie Guthrie: Consecutive sum problem. We do this with handshakes.
 00:28:53 Mohamed Jamaludeen Thirapusa Mohaideen: Yes
 00:29:27 Mark Phipps: Hi from Mesa, Arizona!
 00:29:57 Sharon Black-MacKinnon: Yes we should!!
 00:29:58 Shauna Brown: Hi From Brooklyn, NY
 00:30:14 Emily Kavanagh: Yes absolutely
 00:30:35 Dave Hankin: Hello from Globe, Arizona....
 00:30:45 Faith Peddie: The presentation will be uploaded tomorrow as a PDF!
 00:30:51 Jessica Barrier: Hi from Las Vegas, NV
 00:31:00 Shiv Gaur: Lol
 00:31:05 Melissa Luzano: Boring
 00:31:07 caroline maserang: These are basic and boring
 00:31:12 Faith Peddie: Hi Mike!
 00:31:15 Katie Gibson: yuck
 00:31:15 Pati Kiley: lol
 00:31:16 Rachel White: So true
 00:31:26 Bina Kachwalla: Not much of cognitive struggle
 00:31:28 Konnie Guthrie: These are not problems. We already know what to do.
 00:31:30 Catherine VanNetta: Open to multiple representations

00:31:31 Tenisha Marcel-Herbert: anything conceptual
00:31:34 Sherry *Bovey: Something that is novel
00:31:34 Heidi Nunes: 25000stimulating
00:31:34 caroline maserang: Relatable
00:31:34 Lora Deiter: Real world applicatioin
00:31:36 Sandhya Raman: patterns
00:31:37 Natalie PIpe: multiple entry points
00:31:37 Nicole Rigelman: Want to spend time thinking about it
00:31:37 Amy Lieberman: more than one answer
00:31:37 Linda Rodriguez: makes you think
00:31:38 Lisa Chang: related to real life
00:31:38 Janet Jimenez: Promotes discourse
00:31:39 Molly Rawding: Interesting / puzzling
00:31:40 J. Lyn Miller: more than one answer
00:31:40 Katie Gibson: multiple ways to sove
00:31:40 Melissa Forde: REal world
00:31:40 Jasmine King: more than one way to solve
00:31:41 Kayla Blankenship: context
00:31:41 Ana Alcaraz: many solutions
00:31:41 Amy Tucker: low floor high ceiling
00:31:41 Janice Magauay: Thought-provoking
00:31:41 Marilu Deal: multiple entry points
00:31:42 Betsy Smith: you have to think
00:31:42 Elizabeth Sasse: low floor, high ceiling
00:31:42 Jennifer Webb: Multiple answers and pathways to the answers
00:31:42 Robin Harbour: open ended
00:31:42 Monique Cabellon: low floor high ceiling
00:31:42 Kimberley Perez: make you really think outside of the box
00:31:42 John Simons: Many ways to solve
00:31:42 Heidi Nunes: low floor high ceiling
00:31:42 Tammy Eplion: pique curiosity
00:31:43 Catherine VanNetta: low floor, high ceiling
00:31:43 mary zarra: you can relate to
00:31:43 Dan Raguse: Struggle
00:31:43 Carole Bamford: open ended
00:31:43 Darci Evans: Multiple answers
00:31:43 DawnMarie Gaghan: spark curiosity
00:31:43 Shauna Brown: Relates to the real world
00:31:43 Anne Booth: real-life connections
00:31:44 Shelly Jones: Students actually want to solve it! They care!
00:31:44 Mike Cooke: Multiple solutions and entry points
00:31:44 Laronda Raines-Langham: Thought provoking
00:31:44 Pati Kiley: Ability to apply to other problems
00:31:45 Tracie Best-Harris: solve and explain create
00:31:45 Cindy Falla: students have choice
00:31:46 Kari Eggink: multiple solutions
00:31:46 Leslie Texas: Low floor, high ceiling
00:31:46 Mohamed Jamaludeen Thirapusa Mohaideen: Application
00:31:46 Michelle Webb: relavent
00:31:46 Camille Nemanic: allow different entry points

00:31:47 Rhonda Naylor: you can examine it more than once
00:31:47 Laura Partridge: open ended
00:31:47 Noeimi Vizcarra: Different entry points
00:31:47 Janice Magauay: challenging
00:31:48 Petra Shafer: Promote wonder
00:31:48 Quianna Watkins: real world
00:31:48 Alayna Wearly: multiple entry points
00:31:48 Linda Himes: Low floor, high ceiling
00:31:48 Catherine Bronikowski: Open ended
00:31:48 Karen Campbell: options
00:31:48 Dave Hankin: Ask students to explain what they did and why.
00:31:48 Ramona Hall: deals with food
00:31:48 Roberta Rotolo: challenging
00:31:48 Kathy Woodward: thought provoking
00:31:49 Konnie Guthrie: solution is not obvious
00:31:49 Patti Gawronski: investigative
00:31:49 William Luke: has a hook to grab the student
00:31:49 Molly Rawding: fun to play with
00:31:49 Vi Tamargo: They matter and are relevant
00:31:49 Diane Thole: multiple strategies to solve
00:31:50 Anne Feeney: an "Aha" moment
00:31:50 PATRICK GUERRA: Real life situation problem
00:31:50 Andrea Duris: open ended
00:31:50 Milagros Smith: makes person think
00:31:51 Shiv Gaur: Doesn't have a straight forward solution
00:31:51 Marilu Deal: more than one way to solve
00:31:51 Martisha Dunn: real life experiences
00:31:51 Melissa Forde: productive struggle
00:31:52 Skip Fennell: they engage students in DOING math
00:31:52 Shari Sklar: multiple entry points, real world
00:31:52 Christina Tully: Multiple paths to solving
00:31:52 Mary Hamilton: inspires conversation
00:31:52 Janice Magauay: relevant
00:31:52 Staci Erickson: Realistic
00:31:53 John Simons: No cliches please
00:31:53 Roberta Yeager: Bridge to real life strategies
00:31:53 Heide Kaminski: they relate to real life
00:31:54 Stephanie Crocker: more than one strategy to find an answer
00:31:54 Latasha Little: productive struggle
00:31:54 Lucinda Lawson: fun
00:31:54 Guadalupe Alvidrez: Can be entered in many ways
00:31:55 Terri Davis: Context - you can see why someone wants to know the answer!
00:31:55 Petra Shafer: Multiple access points
00:31:55 Michael Brown: able to be solved but not too easy
00:31:55 Patricia Padgett: great problems make everyone think
00:31:55 Amy Glaser: can use manipulatives
00:31:55 David Barnes: understandable but not sure how to solve
00:31:55 Marcella Curry: Conceptual and often without a single correct answer
00:31:56 Stacy Haines: inquiry

00:31:56 Mark Phipps: Require some modeling
 00:31:56 Betsy Smith: more than one concept is used
 00:31:57 Kerrie Becker: multiple solutions
 00:31:57 Stevie Simonsen: puzzles
 00:31:57 Katherine Stanford: Challenging, but not impossible.
 Interesting
 00:31:57 Nicole McCarthy: Multiple entry points
 00:31:58 Stephenia Courtney: open ended
 00:31:58 Maureen Kishbaugh: thinking outside box, uses observation
 00:31:59 Michelle Webb: real life
 00:31:59 Theresa Sawyer: Patterns
 00:31:59 Catherine Bronikowski: relevant
 00:31:59 Nicole Kissell: seems simple, but harder than you think
 00:31:59 Shannon Hammond: Can draw pictures or arrays
 00:31:59 Shiv Gaur: makes you think
 00:32:00 Gracemary Mannion: more than one way to solve
 00:32:00 Ashley Edwards: brain teasers
 00:32:00 Rita Shamrock: Ponder problems
 00:32:00 Susie Loh: open ended
 00:32:01 Noe Eugenio: there are many ways to solve it
 00:32:01 Kathleen Morris: multiple solutions and multiple solution
 paths
 00:32:01 Macobia Harris: Real world and challenges them think outside the box
 00:32:01 Mohamed Jamaludeen Thirapusa Mohaideen: real time use
 00:32:02 Marie Hannon: fun and relatable
 00:32:02 Kerrie Becker: visual representation
 00:32:03 Wanda Parker: requires thought
 00:32:03 Tien Huynh-Dinh: Answer surprises you!
 00:32:04 susan mitzner: critical thinking skill
 00:32:04 Jamie Ward: use estimation
 00:32:05 Linda Himes: not easily solvable with an algorithm
 00:32:06 Camille Nemanic: more than one possible answer
 00:32:06 Faith Peddie: Did you have a specific question Melodi?
 00:32:06 Pendo Nyanda: connect to real life and can be applied
 00:32:07 Sharon Black-MacKinnon: relevant to the students
 00:32:07 Chrystina Harich: Where the how is asked with not a lot of
 focus on the answer
 00:32:09 Janice Magauay: Challenging but relevant
 00:32:10 David Barnes: Proof by exhaustion not feasible
 00:32:13 Heidi Nunes: multiple representations
 00:32:13 Linda Thommen: Accessible to ELL students.
 00:32:21 Kiera Bruce: relevance!
 00:32:33 Tessie Menta: Relates to students real-life experiences
 00:32:39 Mohamed Jamaludeen Thirapusa Mohaideen: Yes we need to take care of
 ESL and Special Needs learners.
 00:32:44 Emily Kavanagh: Yes
 00:32:46 Diane Anderson: Mott then oe answer
 00:33:22 Veronica Kwok: Those dogs are cute
 00:33:23 Angela Tseng: equity
 00:33:23 Cecila Adamson: perception

00:33:23 Liz Magno: Equity
 00:33:23 Dave Hankin: relative height
 00:33:25 Petra Shafer: There are two dogs
 00:33:25 Sonya Fernandez: Same animals different spots
 00:33:26 DawnMarie Gaghan: system of equations
 00:33:26 Michelle Funai: two cute dogs
 00:33:28 Rhonda Naylor: equitable vs. equality
 00:33:28 Rachel White: Relative height
 00:33:29 Kiera Bruce: equity
 00:33:29 Martisha Dunn: height
 00:33:29 Skip Fennell: proportion
 00:33:31 Jasmine King: The dogs are the same size, and then 100in
 separation
 00:33:31 Carly Adams: Equal vs. equitable
 00:33:31 Shiv Gaur: two situations
 00:33:31 Kathleen Williams: Different ways to approach problems
 00:33:32 Ana Alcaraz: equity
 00:33:33 Stephenia Courtney: same
 00:33:33 Amy Tucker: Two dogs, different heights, plus a table
 00:33:34 Chrystina Harich: story
 00:33:35 Kimberley Perez: smart little pup
 00:33:35 Stevie Simonsen: hieght
 00:33:35 Emily Kavanagh: I like this problem
 00:33:35 Petra Shafer: One is taller and one is smaller
 00:33:35 Katherine Stanford: Equity
 00:33:35 Latasha Little: change in position
 00:33:36 Karisma Alexander: size in dogs
 00:33:37 Camille Nemanic: heights haven't changed
 00:33:37 Josephine Snyder: dogs are different heights
 00:33:39 Shelly Jones: How tall is the small dog?
 00:33:40 Molly Rawding: Notice: when the little dog is on the table, they
 are the same height.
 00:33:40 Rhonda Naylor: accomodation
 00:33:40 Jean Young: they traded places
 00:33:42 Macobia Harris: two heights of dogs not given
 00:33:43 Marilu Deal: Why are the dogs on the table
 00:33:44 April Flanders-Lee: the right one is getting the support in the
 first pic
 00:33:44 Mike Cooke: system of equations
 00:33:45 Sandra Corbacioglu: simultaneous equations
 00:33:45 J. Lyn Miller: poses a problem without words
 00:33:45 Heide Kaminski: comparison
 00:33:45 SAPNA SHARMA: difference
 00:33:46 Shauna Brown: Inequitable height in the 2nd pic
 00:33:46 Bina Kachwalla: the proportionate height of animals
 00:33:47 Wanda Parker: comparison
 00:33:47 Jessica Barrier: change in siza and position
 00:33:47 Pendo Nyanda: is all about measurements
 00:33:48 Janice Magauay: It is the same dog
 00:33:48 Veronica Kwok: They are allowed to stand on tables

00:33:50 Gracemary Mannion: the table is the variable
00:33:52 Amy Tucker: How tall are they?
00:33:53 Jasmine King: how tall is each dog
00:33:54 Christina Tully: How tall is the table
00:33:54 Chrystina Harich: why is the large dog on the table?
00:33:55 Sherry *Bovey: More than 100 inches between them.
00:33:55 Pati Kiley: Is table same height in both?
00:33:56 Laura Partridge: how tall the dogs and table are
00:33:56 Kiera Bruce: how tall is the small dog
00:33:56 Jasmine King: how tall is the table
00:33:56 Sandra Corbacioglu: how tall is each dog
00:33:56 Shiv Gaur: Actual heights
00:33:56 Meg Susi: How tall is the table?
00:33:57 Sonya Fernandez: I wonder the height of the table?
00:33:57 Rhonda Naylor: how tall is the little dog
00:33:58 Michelle Funai: why is the dog on the table?
00:33:58 Catherine Bronikowski: owner cannot keep dogs of table
00:33:58 Janice Magauay: how high is the table
00:33:59 Molly Rawding: how tall in the small dog?
00:33:59 Josephine Snyder: How tall is the table?
00:33:59 Terri Davis: How tall the table is?
00:34:00 Camille Nemanic: what's the difference in height?
00:34:00 Kimberley Perez: little pup is changing the playing field
00:34:00 SAPNA SHARMA: how tall
00:34:01 Andrea Duris: How tall is the small dog
00:34:01 Kathleen Williams: How tall is the table
00:34:01 Stephanie Crocker: why is the dog on the table
00:34:02 Rachel White: How tall is the table?
00:34:02 Sherry *Bovey: How tall is the table?
00:34:03 Marcella Curry: How tall is the table
00:34:04 Emily Kavanagh: Height of table
00:34:05 Molly Rawding: Table height?
00:34:05 Jamie Ward: How tall is the table?
00:34:06 Bina Kachwalla: What is the height of dogs?
00:34:07 Betsy Smith: What is the gap between the two dogs on the right?
00:34:07 Tien Huynh-Dinh: How does the table stand with only 2 legs
00:34:08 Debbie Grady: what are we solving?
00:34:08 Sonya Fernandez: How tall is the small dog?
00:34:09 Heide Kaminski: how did the little one get on the table
00:34:10 Latasha Little: I wonder why is their height important
00:34:10 Vi Tamargo: On the bench, the height of the small dog+bench is
equal to that of the big dog. How tall is the small dog?
00:34:12 Susie Loh: how tall are the dogs
00:34:15 Robin Robinson: what do we need to figure out
00:34:15 Pendo Nyanda: what is the ratio
00:34:20 Jorge Veloso: The difference in their heights
00:34:31 Melissa Luzano: How many different heights work?
00:34:41 Alayna Wearly: i don't see a poll
00:34:48 Kiera Bruce: my poll went away
00:34:49 Jessica Barrier: difference in heights

00:35:01 Shiv Gaur: I can see the poll
00:35:01 Alayna Wearly: i am using the web version and not the app
00:35:02 SAPNA SHARMA: i don't see
00:35:07 Megan Riley: I saw it
00:35:09 caroline maserang: I saw it
00:35:12 Kiera Bruce: that worked
00:35:13 Jessica Barrier: I saw it
00:35:16 Imelda Garcia: none
00:35:16 Pati Kiley: Might have popped up on different screen, if you
have multiple screens
00:35:18 Alayna Wearly: nope
00:35:20 Konnie Guthrie: I would need one more piece of information and I
could figure out the height of the other 2 things.
00:35:25 Alayna Wearly: the height of the table
00:35:38 PATRICK GUERRA: Similarity
00:35:46 Nadia Messadi: yes
00:35:48 Alayna Wearly: i cannot see
00:35:48 Deniz Çakır: yes
00:35:49 Carly Adams: yes
00:35:49 Kiera Bruce: yes
00:35:49 Shiv Gaur: visible
00:35:49 Natalie PIpe: wow!
00:35:49 PATRICK GUERRA: I saw it
00:35:49 Beverly Krumpe: can see
00:35:50 Kelley Manning: yes we can see
00:35:50 Melissa Forde: yes
00:35:50 Mohamed Jamaludeen Thirapusa Mohaideen: yes
00:35:50 Marilu Deal: yes
00:35:50 Alayna Wearly: nope
00:35:50 Jasmine King: yes
00:35:50 CHERRITA ALLEN: yes
00:35:50 Angela Tseng: yes
00:35:51 Sherry *Bovey: yes
00:35:51 Tenisha Marcel-Herbert: yes
00:35:51 Sharon Black-MacKinnon: yes
00:35:51 Peta-Gaye Benjamin: yes
00:35:52 Janice Magauay: Yes we can see it
00:35:52 Sonya Fernandez: YES
00:35:53 Kimberley Perez: yes
00:35:53 Julia Jones: yes
00:35:54 Jennifer Webb: yes
00:35:55 Stevie Simonsen: yes
00:35:55 Ma. Donata Radaza: yes
00:35:55 Deirdre Murphy: Yes
00:35:56 Emily Kavanagh: Can see it
00:35:56 William Luke: yes
00:35:56 Latasha Little: yes
00:35:57 Margie Acabal: yes
00:35:58 Gil Geeran Bangeles: 38% all 37% none
00:35:58 Wanda Parker: Yes

00:35:59 Heide Kaminski: yes
00:36:02 Macobia Harris: yes
00:36:09 Tenisha Marcel-Herbert: hooowwww...lol
00:36:13 Diane Anderson: yes
00:36:20 Sonya Fernandez: :)
00:36:29 Konnie Guthrie: I think my brain is on summer break.
00:36:35 Enkelejda Limani: substitution
00:36:54 Candice Smith: elimination maybe?
00:36:55 Shiv Gaur: Algebraic approach
00:36:58 Bina Kachwalla: to many unknowns
00:37:19 Veronica Kwok: THAT IS AMAZING
00:37:31 Heidi Nunes: awesome
00:37:35 Candice Smith: wow
00:37:42 Jennifer Webb: really love this approach!
00:37:47 Susie Loh: that's amazing
00:37:50 Tamara Vassell: I like this
00:37:51 Marilu Deal: Wow
00:37:52 Laronda Raines-Langham: Love the visual!
00:37:53 Veronica Kwok: Elimination with pictures
00:37:54 Tenisha Marcel-Herbert: nice
00:37:55 Megan Riley: cool
00:37:56 caroline maserang: Love it!
00:37:58 Cecila Adamson: love that!
00:38:00 Shelly Jones: LOL
00:38:01 Konnie Guthrie: I like it.
00:38:03 Martisha Dunn: nice
00:38:03 Tenisha Marcel-Herbert: units...
00:38:04 Lucinda Lawson: great
00:38:04 Larry Arnett: very cool
00:38:07 Tessie Menta: Awesome
00:38:07 PATRICK GUERRA: Great! Love it
00:38:11 Heide Kaminski: neat
00:38:17 Sulafah Ansya Saskiyah: Cool
00:38:18 Janice Magauay: cool!
00:38:21 Julia Marshall: WOW!
00:38:39 Camille Nemanic: I hate the wording of this problem...too
confusing!!!!
00:38:42 caroline maserang: You have to use a picture for sure.
00:38:42 Janice Magauay: visual
00:38:44 Sandhya Raman: Oh please...spare me...spare us...Too many words
00:38:47 Laurie Skaggs: harder
00:38:48 Christina Capuano: visual helps
00:38:48 J. Lyn Miller: we got to conjecture
00:38:48 Lance Brauchla: visual
00:38:49 Rhonda Naylor: visualization
00:38:49 Martisha Dunn: visuals
00:38:49 Shannon Hammond: We got to figure out the question
00:38:50 Jasmine King: sparks curiosity
00:38:51 Angela Tseng: a picture is worth a thousand word
00:38:51 Petra Shafer: That's overwhelming!

00:38:51 Kate Reardon: Too many words
00:38:52 Kira Innes: It tells you what you are looking for
00:38:53 Kathleen Morris: picture gets you wondering and noticing
00:38:53 Jean Young: brain shuts down
00:38:54 Kelli Freiwald: love this problem as a visual
00:38:55 Sonya Fernandez: Too much room for error.
00:38:55 Betsy Smith: It tells you what you can figure out.
00:38:55 Candice Smith: with the pictures you had to figure it out
00:38:56 Laura Partridge: open ended - didn't specifically ask the
question
00:38:56 Cecila Adamson: visual was more interesting
00:38:57 Tenisha Marcel-Herbert: multi representation
00:38:57 Mike Cooke: Easier to follow and richer question
00:38:57 Shauna Brown: Too wordy
00:38:58 DawnMarie Gaghan: Picture was interesting
00:39:00 Doreen Ho: You had to decide what you could figure out.
00:39:02 John Simons: Takes away the mystery
00:39:03 Chrystina Harich: use the words have the students draw and not
worry about the question.
00:39:04 Janice Magauay: Spark curiosity
00:39:06 William Luke: to many words in the question
00:39:07 Heide Kaminski: visuals are always good!
00:39:08 Catherine Bronikowski: when in doubt DRAW it out!
00:39:17 Latasha Little: I prefer visuals...
00:39:19 Candice Smith: investigative using pictures
00:39:19 Vi Tamargo: I don't care about these abstract dogs. I have no
connection to them
00:39:21 Martisha Dunn: don't want to read
00:40:28 Kathleen Morris: noticing and wondering is an excellent
strategy for use across disciplines!
00:40:29 Candice Smith: and if you have kids who struggle with reading
levels especially ELL students...the pictures could be very beneficial
00:40:35 Janice Magauay: i see, I notice , I wonder
00:40:44 Anne Booth: Powerful Problem Solving by Ray. Great book!
00:40:48 caroline maserang: They also "notice" obvious things. Like one
dog is brown and one is white.
00:40:59 Jasmine King: quarter & dime
00:41:03 Candice Smith: a dime and quarter
00:41:03 Emily Kavanagh: Visuals all the way
00:41:03 Shiv Gaur: Two coins
00:41:04 Rachel White: Two coins
00:41:05 Jean Young: faces facing same way
00:41:05 Peta-Gaye Benjamin: Liberty is on both
00:41:06 Sherry *Bovey: Two coins
00:41:06 Brenda McNeese: -size difference
00:41:07 Jasmine King: 10 and 25
00:41:07 Kimberley Perez: the quarter is older
00:41:08 Jamie Ward: two types coins
00:41:08 Laura Partridge: may be drawn to scale
00:41:09 David Barnes:

<https://www.nctm.org/Publications/Mathematics-Teaching-in-Middle-School/2019/Vol24/Issue7/Capturing-Mathematical-Curiosity-with-Notice-and-Wonder/>

00:41:09 Shelly Jones: Two coins one small one large
00:41:11 Laurie Skaggs: 48 years
00:41:11 Janet Jimenez: Different values
00:41:11 Konnie Guthrie: 35 cents
00:41:12 Heidi Nunes: dime has ridges
00:41:13 Heide Kaminski: both have liberty on them
00:41:13 Shiv Gaur: size
00:41:13 Lance Brauchla: Relative size
00:41:14 Martisha Dunn: value
00:41:14 Jasmine King: shiny
00:41:15 Amy Tucker: 15 cents
00:41:15 Stephenia Courtney: the value
00:41:15 Brenda McNeese: same silver??
00:41:17 Sandhya Raman: Edges are ribbed
00:41:17 Jessica Barrier: the size
00:41:17 Sandra Corbacioglu: 15
00:41:17 Margie Acabal: size
00:41:18 Susie Loh: different values
00:41:18 Jennifer Webb: funny
00:41:19 Kari Eggink: 15 cents
00:41:19 Veronica Kwok: One looks shinier than the other
00:41:19 Shauna Brown: The physical weight
00:41:22 Jasmine King: LOLOLZ
00:41:22 Camille Nemanic: Ha ha ha!
00:41:23 Anne Booth: lol
00:41:24 Patti Gawronski: the value
00:41:24 Jessica Barrier: the amount they are worth
00:41:24 Katie Gibson: years
00:41:25 Heide Kaminski: different value and size
00:41:26 Sharon Black-MacKinnon: 15 pennies
00:41:27 Faith Peddie: Laxman did you have a specific question?
00:41:27 Robin Robinson: jajajaja
00:41:27 Dave Hankin: dilation
00:41:29 Emily Kavanagh: Hahahahahaha
00:41:29 Rachel White: Ha! Ha!
00:41:29 Tessie Menta: One is larger than the other
00:41:32 Katie Gibson: size
00:41:34 Katie Gibson: gender
00:41:35 Marcella Curry: The amount of silver
00:41:41 Shelly Jones: Love it
00:41:44 Stephenia Courtney: Quarters
00:42:01 Sandhya Raman: Love these questions...
00:42:03 Brenda McNeese: is this a trick
00:42:05 Jessica Barrier: more dimes, more money
00:42:23 Peta-Gaye Benjamin: More dimes quarters are heavier
00:42:25 Lorie Huff: Change your chat to "all panelist and attendees."
00:42:27 Mohamed Jamaludeen Thirapusa Mohaideen: More dimes
00:42:31 Doug Campbell: how much more does a quarter weigh

00:42:31 Rachel White: My students love these: would you rather??
00:42:32 Staci Erickson: Depends on what each weighs
00:42:32 Ramona Hall: where's the scale?
00:42:35 Linda Himes: What is the eight of each coin
00:42:36 Tamara Vassell: was the question about value?
00:42:36 Tenisha Marcel-Herbert: yep....units.
00:42:38 Mohamed Jamaludeen Thirapusa Mohaideen: dimes weight less
00:42:42 Macobia Harris: definitely seems like a trick
00:42:46 Stacy Haines: You need to figure the weight
00:42:46 Janet Jimenez: Same weight
00:42:49 Angela Tseng: What is dime and quarter made of?
00:42:50 Heidi Nunes: better wash your hands after handling the money ha
ha
00:42:52 Sherry *Bovey: If the quarters weigh more than dimes, it depends on
how much.
00:42:53 Robin Robinson: but what's the difference in weight...?
00:42:54 Dan Raguse: How much do each weigh?
00:42:59 Brenda McNeese: hmmm
00:43:01 Aisha Gaisi: they are both the same
00:43:01 caroline maserang: I guess you need to know the weight
difference between a dime and a quarter
00:43:03 Faith Peddie: Ysamar do you have a specific question?
00:43:04 Heide Kaminski: how much does a dime weigh, how much a quarter?
00:43:09 Sandra Corbacioglu: does a dime weigh more or less than 10/25
ratio
00:43:21 Mike Cooke: Good that you wrote lbs and not pounds - British
people would think the same value
00:43:23 Laurie Skaggs: 50 cents of both weigh the same
00:43:26 Pendo Nyanda: it is not about the weight , it is about the value
00:43:28 Mohamed Jamaludeen Thirapusa Mohaideen: 100 lbs dimes > 100
lbsquarters
00:43:38 C Robertson: Cool! fancy
00:43:46 Tenisha Marcel-Herbert: fall
00:44:21 Staci Erickson: I want to see 5 dimes and 2 quarters
00:44:24 Kimberley Perez: dimes are lighter so you can have more of
them
00:44:29 Mark Phipps: You can close the poll yourself if you need ot
00:44:31 Stevie Simonsen: heavier
00:44:33 C Robertson: lighter
00:44:34 Angela Tseng: I wanna know when they balance
00:44:34 Jennifer Webb: still lighter on the dime side
00:44:35 Emily Kavanagh: Same
00:44:35 Candice Smith: quarter still heaver
00:44:36 Jessica Barrier: it will even out
00:44:36 Brenda McNeese: quarter still heavier
00:44:36 Robin Harbour: quarter heavier
00:44:36 Ramona Hall: quarter heavier
00:44:37 Sherry *Bovey: I think the quarter is still heavier.
00:44:37 Kathleen Williams: less
00:44:37 Shauna Brown: No change

00:44:37 Jean Young: see how many dimes it takes for the weight to be the same?
00:44:37 Pati Kiley: Not as heavy as quarter
00:44:37 Molly Rawding: 2 dimes are still lighter
00:44:37 Peta-Gaye Benjamin: The quarter is still heavier
00:44:39 Lisa Chang: quarter
00:44:39 John Simons: Quarter is heavier
00:44:40 Jasmine King: quarter is still hearvier
00:44:40 Heidi Nunes: quarter heavier
00:44:40 Laurie Skaggs: quarter is slightly heavier
00:44:43 Lucinda Lawson: 2 dimes heavier
00:44:43 Kimberley Perez: two dimes lighter than one quarter
00:44:44 Robin Robinson: quarter still heavier
00:44:45 Wanda Parker: dimes would still be less
00:44:46 Camille Nemanic: quarter still heavier
00:44:46 Lance Brauchla: quarter heavier
00:44:46 Shelly Jones: 2 dimes is less than 1 quarter
00:44:47 Taji Williams: quarter still heavier
00:44:48 Ramona Hall: equal
00:44:48 Jessica Barrier: slightly lighter on the dime side
00:44:50 Jasmine King: quarter still heavier
00:44:51 Ellen C Davis: put 50 cents on each side - 5 diemes and 2 quarters
00:44:51 Laurie Skaggs: dimes heavier
00:44:51 Pati Kiley: Too heavy
00:44:52 Kimberley Perez: still ligher
00:44:53 John Simons: Close but still not enough
00:44:53 Kelli Freiwald: 5 dimes 2 quarters nice idea
00:44:53 Bina Kachwalla: same
00:44:53 Candice Smith: balanced
00:44:54 Jessica Barrier: yeah, lighter
00:44:54 Robin Harbour: dimes heavier then
00:44:55 Jennifer Webb: Dime heavy
00:44:55 Shelly Jones: 3 dimes is heavier
00:44:55 Tenisha Marcel-Herbert: still lighter
00:44:55 Peta-Gaye Benjamin: About the same
00:44:55 mike murphy: 2.5 dimes!
00:44:55 Emily Kavanagh: Same
00:44:55 Milagros Carbonera: the quarter will be still heavier
00:44:56 caroline maserang: heavier?
00:44:56 Lisa Chang: quarter heavier
00:44:57 Duano Saptu Nusantara: heavier
00:44:58 Brenda McNeese: 3 dimes might be heavier
00:45:01 Sherry *Bovey: now the dimes will be heavier
00:45:01 Dixie Viesca: o clue
00:45:02 Maureen Kishbaugh: figured out height of table3 dimes> 1
quarter
00:45:05 Tenisha Marcel-Herbert: oh cool
00:45:05 Stephenia Courtney: heavier
00:45:06 Martisha Dunn: quarters is still heavier
00:45:10 mike murphy: 5:2!!

00:45:11 Doug Campbell: thats why I asked how much more a quarter weighed
00:45:11 Kimberley Perez: unless solid silver dimes,
00:45:14 Dave Hankin: 2.5 is the deciding ratio
00:45:15 Bina Kachwalla: 5 dimes
00:45:20 Peta-Gaye Benjamin: 3 dimes per quarter
00:45:23 Laurie Skaggs: equal
00:45:24 Duano Sapta Nusantara: ballance
00:45:24 Candice Smith: balanced
00:45:25 caroline maserang: same?
00:45:25 Christina Capuano: equal
00:45:25 Kimberley Perez: even it out
00:45:25 Jasmine King: balance
00:45:26 Bina Kachwalla: same
00:45:26 April Flanders-Lee: equal
00:45:26 Wanda Parker: equal
00:45:27 Robin Harbour: dimes would be heavier
00:45:27 Brenda McNeese: even??
00:45:28 Maureen Kishbaugh: dimes are heavier
00:45:28 Taji Williams: balance out
00:45:29 Milagros Carbonera: equal
00:45:29 Rhonda Naylor: equal
00:45:29 Ramona Hall: aha!
00:45:31 Tenisha Marcel-Herbert: wow!
00:45:32 Sonya Fernandez: Wow
00:45:33 Ramona Hall: equal!!!
00:45:33 Veronica Kwok: I NEVER REALIZED THAT
00:45:33 Sherry *Bovey: they are equal
00:45:33 Ma. Donata Radaza: equal
00:45:33 Pati Kiley: whoa
00:45:34 Jennifer Webb: Wow!
00:45:35 Wilma Fulgencio: equal
00:45:35 Brittney Melnick: cool!
00:45:35 Stevie Simonsen: equal
00:45:35 Tamara Vassell: wow
00:45:36 Angela Tseng: What?!?!
00:45:36 caroline maserang: amazing
00:45:36 Christina Tully: No way!!
00:45:36 Sonya Fernandez: :)
00:45:38 C Robertson: No way
00:45:39 Camille Nemanic: Wow!!!!
00:45:40 Dave Hankin: The same thing.
00:45:40 Candice Smith: 50 cents equal 50 cents
00:45:40 Rhonda Naylor: same
00:45:40 Ramona Hall: quarters
00:45:41 Hsiao-Ting Chiou: either
00:45:42 John Simons: Yes
00:45:43 Kimberley Perez: dimes
00:45:43 Dan Raguse: don't care
00:45:43 Robin Harbour: same value
00:45:44 Mark Phipps: quarters

00:45:44 Brittney Melnick: Same thing
00:45:44 Sandhya Raman: WOW...I learned something today!
00:45:44 Tenisha Marcel-Herbert: dimes
00:45:44 Patti Gawronski: cool!
00:45:44 Linda Himes: same
00:45:45 Stevie Simonsen: dimes
00:45:45 Alayna Wearly: it's the same
00:45:45 Robin Robinson: same
00:45:45 CHERRITA ALLEN: they are equal
00:45:45 Sandra Corbacioglu: equal
00:45:45 Carly Adams: either
00:45:45 Angela Tseng: neither
00:45:46 GARRETT ENGLISH: Same
00:45:46 Mary Hamilton: quarters
00:45:46 Natalie Muldoon: either
00:45:46 Christina Tully: Quarters - less coins
00:45:46 Peta-Gaye Benjamin: Dimes
00:45:46 caroline maserang: same, right?
00:45:47 Katie Johnson: Either
00:45:47 Shelly Scheafer: They're the same
00:45:48 Terri Davis: Either
00:45:49 Petra Shafer: quarters!!
00:45:50 Stephanie Sikes: same
00:45:50 Nadia Messadi: same
00:45:50 Staci Erickson: same
00:45:51 Lance Brauchla: quarters
00:45:51 Nicole Rigelman: Quarters they are better for parking meters
00:45:51 Shauna Brown: dimes
00:45:52 Angela Tseng: DOn't want coins
00:45:53 Ashley Edwards: same
00:45:53 Laura Partridge: quarters as they are better in meters
00:45:53 Betsy Smith: They're equal!
00:45:53 Kathleen Williams: its the same
00:45:54 Jessica Barrier: quarters, easier to count out
00:45:54 Sonya Fernandez: The same?
00:45:54 Alayna Wearly: because both are 50 cents
00:45:54 Susie Loh: same
00:45:56 Kelli Freiwald: wow that's cool
00:45:57 Doug Campbell: same
00:45:58 Latasha Little: either
00:45:59 Brenda McNeese: 50 cents for 50 cents
00:46:00 Brittney Melnick: Quarters there's less total to carry lol
00:46:01 Marcella Curry: Quarters, easier to carry fewer
00:46:01 Wanda Parker: same
00:46:01 Karisma Alexander: The value equal the amount
00:46:01 Angela Tseng: Venmo me!
00:46:02 Macobia Harris: same.... that's awesome
00:46:02 Shannon Hammond: I did not see that coming!
00:46:07 David Martinez: quarters easier to wrap
00:46:08 Jet Yeung: it's the same

00:46:13 Dave Hankin: Cool chart!
00:46:14 Tessie Menta: I just want the quarters because I can use them for laundry .
00:46:15 Jean Young: awesome!!
00:46:15 Veronica Kwok: I'll take the quarters because a higher denomination so less quarters in terms of quantity
00:46:15 Pendo Nyanda: same
00:46:27 Mark Phipps: Is that from 1971
00:46:30 Candice Smith: wow
00:46:33 Wanda Parker: Neat!
00:46:34 Pati Kiley: Same amount of nickel
00:46:35 Duano Sapta Nusantara: wowww
00:46:35 Ramona Hall: quarters would be easier to carry!
00:46:36 Rachel White: Wow!
00:46:37 Kelli Freiwald: so you wonder about the other coins...
00:46:37 Jasmine King: That was cool!
00:46:38 Diana Telders: I wonder how different that is from year to year
00:46:38 Emily Kavanagh: Awesome
00:46:41 Kate Reardon: SoCool
00:46:48 Mike Cooke: half dollar = 2 x weight of quarter
00:46:50 Dave Hankin: Great activity for students in so many ways...so much you can do with this.
00:46:51 Konnie Guthrie: This question would generate a great discussion.
00:46:51 Lucinda Lawson: cool
00:46:53 Pendo Nyanda: I will take the quarters
00:46:53 Jessica Barrier: That is pretty interesting!
00:46:53 Angela Tseng: (mind blown)
00:46:54 Mohamed Jamaludeen Thirapusa Mohaideen: Half dollar > dollar
00:46:55 Kimberley Perez: very cool
00:46:56 Duano Sapta Nusantara: half dollar is also related
00:46:57 Candice Smith: neat investigation getting kids thinking
00:47:05 Pati Kiley: Does this go back to the width of a Roman horse?
00:47:06 Bina Kachwalla: If students have an access to this chart the problem would be really great
00:47:06 Janice Magauay: Awesome info
00:47:08 Angela Tseng: way to bring in science too!
00:47:10 Ryan Fox: Nickels are used to calibrate scales bc they have a nice even 5g
00:47:14 Tamara Vassell: Will we have access to these problems?
00:47:15 Rhonda Naylor: does the new nickel weigh less than old nickel?
00:47:32 Melissa Luzano: it's getting it's getting it's getting kinda heavy love these titles!
00:48:07 Doug Campbell: how many people are 2 for 2 on the polls
00:48:08 Emily Kavanagh: Dude, Where is my Car?
00:48:20 Melissa Luzano: and the titles keep getting better
00:48:22 Mike Cooke: You will need to talk faster!!
00:48:32 Tien Huynh-Dinh: Love it...
00:48:33 Angela Tseng: 2x time!
00:48:34 Melissa Luzano: lol
00:48:37 Bina Kachwalla: thanks

00:48:39 Kelli Freiwald: yay
00:48:43 Imelda Garcia: great
00:48:44 Kiera Bruce: cool
00:48:44 Candice Smith: yay thanks
00:48:45 Heidi Nunes: sweet
00:48:46 caroline maserang: Thanks for sharing
00:48:46 Carole Bamford: Thanks!
00:48:46 Christina Hall: Thank you.
00:48:47 Lucinda Lawson: great
00:48:47 Brenda McNeese: great
00:48:48 Rachel White: Thank you!
00:48:49 Ma. Donata Radaza: Thank you very much
00:49:00 Jessica Barrier: Thank you!
00:49:01 Jean Young: i love the strategies for presenting them and
creating lots of engagement!
00:49:01 Faith Peddie: Ysamar do you have a specific question?
00:49:11 jeanine colwell: that's awesome, thank you'
00:49:14 Deniz Çakır: thank you
00:49:22 Marilu Deal: Thank you for sharing.
00:49:24 Dave Hankin: 60
00:49:24 Brenda McNeese: 60
00:49:24 Janice Magauay: 60
00:49:25 Amy Tucker: 60
00:49:25 Lauren Davis: 60
00:49:25 Heidi Nunes: 60
00:49:25 Christina Capuano: 60
00:49:25 Molly Rawding: 60
00:49:26 Dan Raguse: 60
00:49:26 Susan Lear: 60
00:49:26 Konnie Guthrie: 60
00:49:27 Tenisha Marcel-Herbert: 60
00:49:27 Mike Cooke: 60
00:49:27 Lora Deiter: 60
00:49:28 Lance Brauchla: 60
00:49:28 Shelly Jones: 60
00:49:28 Ramona Hall: 60
00:49:29 Imelda Garcia: 60
00:49:29 Yin-Tzu Huang: 60
00:49:30 Duano Sapta Nusantara: 60
00:49:30 Nancy VandePas: 60
00:49:31 Jasmine King: 60
00:49:31 Angelita Beltran: 60
00:49:31 Sandra Corbacioglu: 60
00:49:31 Kayla Blankenship: 60
00:49:31 April Flanders-Lee: 60
00:49:32 Angela Allen: 60
00:49:32 cynthia klein: 60
00:49:32 Jessica Barrier: 60
00:49:32 Melissa Forde: 60
00:49:32 Bina Kachwalla: 6

00:49:33	Milagros Carbonera:	60
00:49:33	Susie Loh:	60
00:49:34	Kelli Freiwald:	60
00:49:34	Stevie Simonsen:	60
00:49:35	Shelly Scheafer:	60
00:49:35	Cecila Adamson:	60
00:49:35	Marcella Curry:	60
00:49:35	Katie Johnson:	60
00:49:35	Kimberly Dyess:	60
00:49:35	Camille Nemanic:	606
00:49:35	Laurie Skaggs:	60
00:49:36	Rachel White:	60
00:49:36	Shauna Brown:	60
00:49:36	Margie Acabal:	60
00:49:36	Beth Seyler:	60
00:49:37	Janet Jimenez:	60
00:49:37	Chrstina Jameson:	60
00:49:37	Karisma Alexander:	60
00:49:38	Emily Kavanagh:	20X3=60
00:49:38	Shiv Gaur:	24
00:49:38	Macobia Harris:	60
00:49:40	caroline maserang:	60
00:49:40	Laurie Skaggs:	60
00:49:40	Patti Gawronski:	60
00:49:41	Latasha Little:	60
00:49:42	Brenna Fain:	60
00:49:43	Sandhya Raman:	T is 1
00:49:45	Martisha Dunn:	60
00:49:46	Sharon Black-MacKinnon:	60
00:49:48	Stacy Milas:	60
00:49:51	Heide Kaminski:	60
00:49:55	Pendo Nyanda:	60
00:49:56	Kelli Freiwald:	wow that's just wrong lol
00:50:02	Jessica Barrier:	24
00:50:04	Jet Yeung:	60
00:50:07	caroline maserang:	ACT
00:50:08	Janice Magauay:	act
00:50:08	J. Lyn Miller:	act
00:50:09	Sharon Black-MacKinnon:	act
00:50:09	Christina Tully:	act
00:50:10	Marcella Curry:	Tac
00:50:10	Liz Magno:	act
00:50:11	Quianna Watkins:	act
00:50:12	Laurie Skaggs:	act
00:50:15	Patti Gawronski:	act
00:50:15	Shauna Brown:	tac
00:50:16	Latasha Little:	Tac
00:50:16	Melissa Forde:	tac
00:50:16	Lauren Davis:	tac
00:50:16	Shiv Gaur:	tac

00:50:17 Milagros Carbonera: act
 00:50:17 Sherry *Bovey: 60
 tac
 00:50:17 Jessica Barrier: tac
 00:50:17 Duano Sapta Nusantara: ACT
 00:50:17 Candice Smith: tac
 00:50:18 Christina Capuano: tac
 00:50:19 Emily Kavanagh: Act
 00:50:19 Alayna Wearly: TAC
 00:50:20 Genesis Reyna: tac
 00:50:21 Jessica Barrier: act
 00:50:21 Pendo Nyanda: tac
 00:50:22 Martisha Dunn: tac
 00:50:24 Wanda Parker: tac
 00:50:25 Duano Sapta Nusantara: TAC
 00:50:25 Deniz Çakır: act
 00:50:27 Shiv Gaur: atc
 00:50:28 Heidi Nunes: el
 00:50:30 Dave Hankin: cot
 00:50:31 Sharon Black-MacKinnon: casa
 00:50:32 Shiv Gaur: ATC
 00:50:33 Laurie Walker: aced
 00:50:35 Petra Shafer: do
 00:50:35 Kiera Bruce: tac
 00:50:36 Terri Davis: jab
 00:50:37 Bina Kachwalla: jac
 00:50:37 Duano Sapta Nusantara: scrabble team here
 00:50:38 Dave Hankin: cut
 00:50:38 Emerson Roman: jet
 00:50:40 Shari Sklar: sad
 00:50:40 Pendo Nyanda: CTA
 00:50:43 Faith Peddie: Dana do you have a specific question?
 00:50:44 Catherine VanNetta: odd
 00:50:46 Sandhya Raman: Love love love this approach
 00:50:47 Maureen Kishbaugh: jab
 00:50:47 Beth Seyler: My Name
 00:50:50 Sandhya Raman: factors
 00:50:51 Patti Gawronski: the product of my name
 00:50:52 J. Lyn Miller: three-letter word of highest value
 00:50:53 Jorge Veloso: Bay
 00:50:54 Nicole Kissell: create the highest point word
 00:50:54 Sandra Corbacioglu: Fj but not a word
 00:50:55 Tanya Landry: words same value?
 00:50:55 Brenda McNeese: student name
 00:50:55 Karen Campbell: Find a word worth 100
 00:50:56 Sandhya Raman: Factor tree
 00:50:57 caroline maserang: Can you make a word that equals 100?
 00:50:58 Nicole Rigelman: How many words have a value of 100
 00:51:00 Dan Raguse: Words that = 100
 00:51:01 Christina Capuano: zig

00:51:01 Jessica Barrier: the value of my name
 00:51:03 Heidi Nunes: what is the value of math
 00:51:04 Katie Gibson: value of 100
 00:51:04 Mohamed Jamaludeen Thirapusa Mohaideen: zzz
 00:51:06 Shauna Brown: Literal equations
 00:51:08 Jennifer Webb: Which state has the highest value?
 00:51:09 Shiv Gaur: What three letter has the least value
 00:51:09 Candice Smith: the value of our school mascot name?
 00:51:09 Kelli Freiwald: this is really good!
 00:51:11 Sandra Corbacioglu: max min equivalents
 00:51:13 Latasha Little: whats the value of mathematics
 00:51:14 Katie Gibson: value of current year
 00:51:15 Kimberley Perez: value of centuplicate
 00:51:17 Heidi Nunes: value of hard work
 00:51:17 Mark Phipps: Smallest 4 letter word product
 00:51:18 Konnie Guthrie: Which student has the largest or smallest value?
 00:51:19 Candice Smith: family members?
 00:51:19 April Flanders-Lee: the value of classmates names, teacher's
 name, and so on
 00:51:20 John Simons: What's worth more "I love you" or "I hate you"
 00:51:20 Amy Lieberman: product of all letters
 00:51:20 Janet Jimenez: Make multiple combinations of words with same
 equivalencies
 00:51:22 Cindy Falla: Baby=100
 00:51:22 Sandhya Raman: Commutative and associative properties
 00:51:22 Lucinda Lawson: great
 00:51:26 Dave Hankin: Don't they need to be words?
 00:51:35 Sandra Corbacioglu: great question
 00:51:36 Lucinda Lawson: sure
 00:51:36 Nicole Rigelman: I swear I didn't know...
 00:51:37 Heidi Nunes: yes please
 00:51:37 Candice Smith: yeah
 00:51:39 Anne Feeney: day
 00:51:40 Tanya Landry: baby
 00:51:41 Duano Sapta Nusantara: Wowww
 00:51:42 John Simons: Tea
 00:51:44 Sharon Black-MacKinnon: Abby
 00:51:46 Jasmine King: day
 00:51:46 Marie Hannon: yes
 00:51:47 Shauna Brown: idk
 00:51:49 Mark Phipps: ALL
 00:51:49 Emerson Roman: eat
 00:51:50 Sandra Corbacioglu: baby
 00:51:50 Jamie Ward: jab
 00:51:51 Veronica Kwok: Do any English words have the same value as their
 translated counterpart in another language – assuming they use the Latin alphabet
 00:51:53 Doug Campbell: this one hurts my brain
 00:51:53 Bina Kachwalla: gay
 00:51:54 Mary Hamilton: day
 00:51:54 Sandhya Raman: baby

00:51:55 Ellen C Davis: can only use 1, 2, 5, 10 and 20
00:51:55 Elizabeth Hallahan: kids would love to do names.
00:51:55 Christina Capuano: eat
00:51:56 Lance Brauchla: day
00:51:56 Duano Sapta Nusantara: pls
00:51:57 Kelli Freiwald: I used to do dollar words and practice adding
decimals... before the internet...
00:51:57 Bina Kachwalla: day
00:51:57 Jasmine King: ate
00:51:58 Dan Raguse: day
00:51:58 Mary Hamilton: day
00:51:59 Sherry *Bovey: day
00:52:00 Heidi Nunes: abby was awesome!!
00:52:00 Patti Gawronski: day
00:52:00 Jasmine King: tea
00:52:03 Lora Deiter: day
00:52:03 John Simons: Eat
00:52:04 Heide Kaminski: zoo
00:52:04 Sandra Corbacioglu: you can always add an a
00:52:04 John Simons: Ate
00:52:04 Kimberly Dyess: tea
00:52:04 Sahar Alkhatib: yes
00:52:05 April Flanders-Lee: day
00:52:05 Sandhya Raman: day
00:52:06 Emerson Roman: eat
00:52:08 Sahar Alkhatib: baby
00:52:10 Janice Magauay: eat
00:52:13 Sharon Black-MacKinnon: ate
00:52:17 Ellen C Davis: and 25
00:52:21 Pendo Nyanda: bay
00:52:31 Candice Smith: day
00:52:38 Duano Sapta Nusantara: woww cool
00:52:41 Camille Nemanic: Very cool!!!!
00:52:42 Jennifer Webb: crazy cool!
00:52:55 Melissa Luzano: mathjokes4mathyfolks.com
00:52:56 Brenda McNeese: the dingo ate your baby
00:52:57 Milagros Carbonera: that is great
00:52:59 Lisa Lambuth: You are too cool!
00:53:02 Veronica Kwok: WOWOWOWOWOW!
00:53:03 Jessica Barrier: neat
00:53:05 Doug Campbell: dang I thought thered be more
00:53:06 Cecila Adamson: awesome
00:53:08 Sharon Black-MacKinnon: awesome
00:53:09 Lucinda Lawson: cool
00:53:09 Sonya Fernandez: Wow!
00:53:10 Duano Sapta Nusantara: checker
00:53:11 Sherry *Bovey: This is great--a good center activity
00:53:11 Jessica Barrier: what website is this?
00:53:12 Heidi Nunes: that's cool
00:53:12 Robin Robinson: fun!

00:53:12 J. Lyn Miller: nice
00:53:15 Macobia Harris: That's awesome
00:53:15 Kate Reardon: SO cool
00:53:18 Lance Brauchla: cool
00:53:19 Deniz Çakır: awesome
00:53:20 Sandra Corbacioglu: they could use an alias
00:53:24 Pendo Nyanda: Love this...
00:53:26 Tien Huynh-Dinh: Yes
00:53:26 Candice Smith: cool... interactive and incorporating their
interests
00:53:26 Shelly Jones: fun
00:53:30 Heidi Nunes: jokes4mathyfolks
00:53:31 Karisma Alexander: neat
00:53:36 Pati Kiley: Like a secret code
00:53:39 Heidi Nunes: mathjokes4mathyfolks
00:53:43 Rhonda Naylor: nice to see you, Patrick, and your Math Jokes for
Mathy Folks!
00:53:55 Sandhya Raman: hahahaahah
00:53:56 Lucinda Lawson: hahaha
00:54:00 Candice Smith: wow...
00:54:08 Rachel White: Wow!
00:54:11 Lucinda Lawson: sad
00:54:13 Ramona Hall: so sad
00:54:14 Heidi Nunes: :(
00:54:15 Stevie Simonsen: sad
00:54:17 Shelly Jones: sad
00:54:18 Emily Kavanagh: Wow R.I.P.
00:54:18 Angela Tseng: I'm so sorry
00:54:19 Martisha Dunn: oh my
00:54:19 Duano Sapta Nusantara: sad
00:54:20 Camille Nemanic: So sad
00:54:20 Heide Kaminski: awww
00:54:20 Sonya Fernandez: So sad!
00:54:22 Angelita Beltran: sorry
00:54:23 Shiv Gaur: RIP
00:54:27 Candice Smith: awww... :(;(
00:54:28 Jessica Barrier: That is very sad! :(
00:54:29 Sharon Black-MacKinnon: condolences
00:54:29 Latasha Little: Sorry for the loss
00:54:30 Sherry *Bovey: awww, thank you opr letting us know
00:54:30 Mohamed Jamaludeen Thirapusa Mohaideen: Sorry
00:54:31 Kathy Woodward: so sad
00:54:32 Candice Smith: RIP
00:55:00 Jennifer Webb: You have to work to make kids comfortable for
guessing and drawing pictures!
00:55:03 Terri Davis: What was Strategy 2? I missed it.
00:55:13 Heidi Nunes: 2 was low floor high ceiling
00:55:14 Christina Capuano: yes I missed it too
00:55:19 Terri Davis: Thanks!
00:55:19 Sandhya Raman: Nice!

00:55:21 Christina Capuano: Oh thanks
00:55:30 Bina Kachwalla: Awesome strategies
00:55:33 Latasha Little: student choice
00:55:43 Candice Smith: giving them a choice gives them ownership of their
learning
00:55:44 Tenisha Marcel-Herbert: yessssssss
00:55:51 Candice Smith: yess
00:55:52 Sandhya Raman: woohooooo
00:55:55 Lucinda Lawson: thanks
00:56:08 Ma. Donata Radaza: Thanks again for the bonus
00:56:09 Tenisha Marcel-Herbert: I knew the grid was coming....lol
00:56:11 Lucinda Lawson: yes
00:56:16 Emily Kavanagh: I did this in the beginning of the school year with
my students
00:56:39 Faith Peddie: The packet will be available at the end of the
session and also tomorrow at www.nctm.org/100
00:56:48 Kelli Freiwald: I've seen one like that but it was a garden
00:56:57 Karen Campbell: 2
00:57:18 Katie Gibson: 4
00:57:23 Sandhya Raman: Can you put the link here please?
00:57:30 Laura Partridge: 1
00:57:31 J. Lyn Miller: 12
00:57:32 Alayna Wearly: could you show the bit.ly again, please?
00:57:33 Patti Gawronski: 5
00:57:34 Liz Magno: four 5x5
00:57:35 Katie Gibson: 25
00:57:35 Kelli Freiwald: do we get this google sheet too?
00:57:40 Heidi Nunes: <http://bit.ly/cover-squares>
00:57:43 Sahar Alkhatib: 1
00:57:45 Heidi Nunes: I think
00:57:47 Sahar Alkhatib: 2
00:57:54 Sahar Alkhatib: 5
00:57:56 Sahar Alkhatib: 4
00:57:57 J. Lyn Miller: 20
00:57:57 David Barnes: 4
00:57:58 Sandhya Raman: Thanks Heidi
00:58:00 Jasmine King: 2, 5, 10, 25
00:58:03 Doug Campbell: this is making me feel dumb haha
00:58:04 Candice Smith: 3
00:58:04 Kiera Bruce: 4
00:58:09 Jasmine King: 4
00:58:16 Laura Goss: 4
00:58:19 J. Lyn Miller: 20
00:58:19 Macobia Harris: I'll say 2, 5, 10 and 25
00:58:21 Julia Marshall: 20
00:58:22 Alayna Wearly: @david barnes, do you have the bit.ly, please?
00:58:25 Amy Lieberman: 8
00:58:28 jeanine colwell: all the perfect square numbers
00:58:31 Candice Smith: 5
00:58:33 Alayna Wearly: for reasons i don't understand, i can't see

everyone's response

00:58:33 dana dulzo: 4
00:58:35 Marcella Curry: Not 99
00:58:35 Sahar Alkhatib: 16
00:58:37 Jamie Ward: 5
00:58:39 Karen Campbell: 10
00:58:39 Alayna Wearly: but i can see yours
00:58:40 J. Lyn Miller: 10
00:58:42 Angela Tseng: 10
00:58:42 Julia Marshall: 10
00:58:43 Jamie Ward: 50
00:58:44 Camille Nemanic: 2, 4, 5 10
00:58:45 Patti Gawronski: I love this!
00:58:46 Maureen Kishbaugh: I thought you said "can't."
00:58:47 Angela Tseng: 50
00:58:48 Jasmine King: I'm lost
00:58:48 Duano Sapta Nusantara:
<https://docs.google.com/spreadsheets/d/1Zb59uljomNZBdt46gQVgmqfDMnRbr2VhmXzJ1PR5-0k/edit#gid=0>
00:58:49 Sahar Alkhatib: 16
00:58:50 Tessie Menta: 25
00:58:52 Camille Nemanic: 20. 50
00:58:59 Michelle Webb: 2
00:59:00 Ellen C Davis: i don't get it are we talking about dimensions or area
00:59:09 Katie Gibson: love the connection to vocab - length - area - perimeter
00:59:14 Deirdre Murphy: 2
00:59:16 Angela Tseng: divisibility
00:59:20 Amy Tucker: Number of squares
00:59:21 David Barnes: 82
00:59:29 Linda Rodriguez: wouldn't it be all the numbers that are evenly divisible
00:59:33 Christina Capuano: 10
00:59:34 J. Lyn Miller: 37?
00:59:38 Mark Phipps: 28 you can do
00:59:47 Petra Shafer: you can cover with 28
00:59:56 Lucinda Lawson: prime numbers involved?
01:00:00 Michelle Funai: You could turn this into an art project, students could color whatever combination they come up with, would look like the Piet Mondrian art.
01:00:00 Mark Phipps: Start with 100 and subtract multiples of 3 to cover a bunch of them
01:00:04 Jasmine King: you can do all 1- 100
01:00:13 Kendra Edwards: 99
01:00:18 David Barnes: 2 not possible
01:00:19 Elizabeth Hallahan: they love to color even in middle school!!!
01:00:21 Nicole Rigelman: ... and cover without gaps and overlaps
01:00:22 Latasha Little: 20
01:00:23 Maureen Kishbaugh: numbers don't work.

01:00:41 Maureen Kishbaugh: Prime numbers don't work.

01:00:41 Mark Phipps: Take four 4 ones and make one 2x2

01:00:59 Latasha Little: 20

01:01:08 dana dulzo: prime numbers?

01:01:11 Mark Phipps: Then you could also start at 100 and subtract 8s

01:01:31 Patti Gawronski: do you end up with prime numbers?

01:01:33 Ellen C Davis: i still don't understand how do you make a square with an area of 32?

01:01:45 Sherry Bovey: Five is a prime number.

01:01:46 Mark Phipps: and then subtract 15s and also 24s

01:01:50 Emily Kavanagh: Sounds about right

01:01:54 John Simons: I really don't understand what you're asking us to do

01:01:56 Robin Harbour: I'm confused about what we're doing

01:02:00 Cecila Adamson: I've never seen this before, so I'm not sure what is going on.

01:02:02 Ashley Edwards: any strategies for 1st graders?

01:02:04 Heidi Nunes: Prob not primes b/c 37 is not prime

01:02:06 Michelle Webb: me too Robin :)

01:02:12 Jean Young: i'm not sure either

01:02:14 Heidi Nunes: i mean 37 is prime

01:02:14 Jennifer Webb: Why do you mark off a number?

01:02:22 Mark Phipps: Then do combinations of both

01:02:35 Darci Evans: I don't understand what is being done here either

01:02:38 Jennifer Webb: These are sums of 100 that can be achieved by adding perfect squares?

01:02:44 Alfreida S Jamison: Not following this

01:02:48 Robin Harbour: Hopefully there is a description in the materials

01:03:02 Lucinda Lawson: The two numbers that add to 100 are different

01:03:04 John Simons: ??????????????????

01:03:06 Kelly de Lemoa: I think I know how my students feel when they don't understand what I'm talking about!

01:03:09 Alfreida S Jamison: Can you expound on the directions a bit?

01:03:14 Tien Huynh-Dinh: Could someone show how 76 worked?

01:03:18 Tanya Landry: I'm glad I'm not the only one lost.

01:03:18 Linda Rodriguez: What are you subtracting from 100?

01:03:18 Pendo Nyanda: can we use any numbers or it has to be perfect square numbers

01:03:23 Darci Evans: I'm glad I'm not the only one not understanding this

01:03:25 Linda Rodriguez: confused...

01:03:40 Veronica Kwok: Using only squares (which could be different sizes), you can cover a 10x10 grid

01:03:42 Shauna Brown: How could we use this in High school

01:03:44 Lucinda Lawson: is that correct? Are the numbers that add to 100 always opposite?

01:03:45 Brenda McNeese: use only combinations of perfect squares that add to 100

01:03:45 William Luke: This is a very confusing problem for the average student

01:03:51 Shelly Jones: Maybe we can say why one of them work? Choose one

like 76 how does that work?

01:03:55 Jasmine King: OHHHHHHHHHHH

01:03:58 Martisha Dunn: I think perfect squares

01:03:59 Jasmine King: AREA!!!!!!!

01:04:03 Heide Kaminski: lol, it's almost 8 pm here, too tired to think quickly

01:04:03 Jean Young: how would yo cover it w 2?

01:04:03 Jasmine King: I"M SLOWWWW

01:04:05 Jasmine King: LOLZ

01:04:07 Katie Gibson: it's a great example of it being OKAY to be confused and do it "wrong" to start with

01:04:07 Milagros Carbonera: 15i got it now

01:04:07 Darci Evans: So what are the numbers you are filling in on the chart?

01:04:09 Alfreida S Jamison: Oh...now I understand, Thank you.

01:04:10 Candice Smith: ohh.....ok

01:04:11 Sandhya Raman: Thanks...helps

01:04:14 Lucinda Lawson: show it again.

01:04:16 John Simons: So what are the numbers you're highlighting then?

01:04:18 Tien Huynh-Dinh: Please work 76 for a few of us...

01:04:21 Konnie Guthrie: This is not meant to be solved in the time we have here.

01:04:22 Milagros Carbonera: thank you

01:04:23 caroline maserang: Yes, now I understand:)

01:04:24 Jasmine King: YES!!

01:04:24 Kathy Woodward: You explained it fine it just took me a while. thank you

01:04:24 Michelle Webb: so why doesn't 2 work/

01:04:36 Stephenia Courtney: got it now

01:04:37 Tanya Landry: okay, so sums of squares of 1 - 10

01:04:46 Sonya Fernandez: Some numbers are not numbers that make a square. Is that right?

01:04:47 Lucinda Lawson: opposites are different... 67 and 33..

01:04:51 Mary Dugas: Looking for what doesn't work by finding those that do

01:04:53 Wanda Parker: Getting it now!

01:04:56 Alfreida S Jamison: Nice activity.

01:04:59 Diane Anderson: got it no

01:05:02 Diane Anderson: no

01:05:05 Latasha Little: Im just observing. Remote learning has fried my brains today.

01:05:06 Diane Anderson: now

01:05:06 Veronica Kwok: You are given a 10x10 grid and your goal is to cover that grid with just squares (which could be any size). How many squares do you need to cover the grid?

01:05:30 Aisha Gaisi: This is productive struggle

01:05:36 Sandhya Raman: Love that quote

01:05:45 Alfreida S Jamison: Absolutely!

01:05:49 Rachel White: Productive struggle

01:05:50 Camille Nemanic: Amen!!!!!!
01:05:51 Candice Smith: good quote
01:05:52 Jeanine Colwell: fantastic
01:05:55 Sandra Corbacioglu: answer a q with a q
01:05:59 Paul Lavery: great quote
01:06:07 Janice Magauay: Being too helpful is what hurts the students the most
01:06:08 Doug Campbell: this is good for making math teachers understand how their students feel when they don't understand something haha
01:06:09 Lisa Lambuth: Love that quote!
01:06:10 Kimberly Porter: wait time
01:06:11 Ashley Edwards: love them enough to let them struggle
01:06:14 Lucinda Lawson: It is like palindrome.... Half as difficult as expected.
01:06:19 Duano Sapta Nusantara: indeed
01:06:22 Ashley Edwards: high expectations teaching
01:06:27 William Luke: Struggle learn instructions are important
01:06:29 Dana Dulzo: great quote, I agree
01:06:33 Maria Gonzalez: I love this quote!
01:06:52 Candice Smith: wow
01:06:56 Ashley Edwards: They will get it, but we must provide them the opportunity to do so
01:07:03 Shauna Brown: Wow great idea
01:07:12 Lucinda Lawson: is that how you spell farey?
01:07:22 Natalie Pipe: No
01:07:22 Heidi Nunes: That's awesome
01:07:31 Brenda McNeese: over time
01:07:36 Brenda McNeese: ongoing project
01:07:38 Milagros Carbonera: It is very cool
01:07:43 Lucinda Lawson: ok!!!
01:07:46 Candice Smith: cool
01:07:46 Maureen Kishbaugh: Would you include equivalent fractions separately?
01:07:49 Robin Harbour: start with up to denominators of 10, then 20... they fill in more..
01:08:16 Brenda McNeese: Great.
01:08:19 Julia Jones: I like that, Robin! I'm gonna do it!
01:08:20 Heidi Nunes: good question about equivalent fractions
01:08:22 Michelle Webb: I enjoyed this. Thanks!!
01:08:25 Jennifer Webb: Awesome stuff, Patrick!!
01:08:27 Sharon Black-MacKinnon: Thank you so much!
01:08:27 C Robertson: Compliments! Very enjoyable
01:08:28 Stephanie Ahumada: Thank you!
01:08:28 Tamara Vassell: This was great
01:08:29 Tien Huynh-Dinh: Wonderfull...thank you!
01:08:30 Brenda McNeese: If we want to create our own, what should we go for
01:08:30 Debbie Grady: What's a good resource for finding rich problems?
01:08:30 Sahar Alkhatib: This would be great to do with kids on 100 days of school for 7th graders.
01:08:30 Emily Kavanagh: Nice presentation

01:08:30 Ramona Hall: Great! Loved this!
01:08:32 Rhonda Naylor: You continue to be intriguing, Patrick.
01:08:33 Kelli Freiwald: what are your favorite resources for problems like
this
01:08:33 DawnMarie Gaghan: This was fun thank you!
01:08:33 Pamela Liegl: Thanks
01:08:33 Beth Kobett: love it!
01:08:34 Janice Magauay: Thanks, you did a great job!
01:08:34 Trena Wilkerson: Wonderful Patrick! Thank you!
01:08:36 Lisa Lambuth: Thank you so much. This was fun and will have me
thinking for a while!
01:08:36 Kelli Epperson: GREAT CLASS THANK YOU!!
01:08:36 Macobia Harris: This was fun
01:08:36 Rachel White: Thank you. Looking forward to seeing all the
problems.
01:08:38 Heidi Nunes: this has been great
01:08:38 Beth Kobett: Great job!
01:08:38 Francis Kisner: Are the fractions supposed to be in reduced form?
01:08:38 Tanya Landry: Nice. Appreciate it.
01:08:38 Deanna Richardson: This has been great! Thanks.
01:08:39 Carly Adams: Thank you!
01:08:39 Elizabeth Sasse: Thanks. This was very interesting. Eager to
look at the packet of 100 problems and explore more.
01:08:39 caroline maserang: Thanks for sharing great ideas. My favorite
was the "Be Less Helpful"
01:08:40 Elaine Boyer: Thank you so much! This was fun!
01:08:40 Shelly Jones: Thank you
01:08:41 Melissa Forde: Thank you!
01:08:41 Sandhya Raman: Love your problems....thank you...would love to see the
set of 100...plus 1
01:08:42 Laura Goss: Thank you
01:08:42 Yin-Tzu Huang: This was fun! Thank you!
01:08:44 Patti Gawronski: thank you!
01:08:44 Lisa Zolper: Thank you
01:08:45 Angela Tseng: You're awesome! Thank you for linking 100 with so
many concepts.
01:08:45 Lorelei Phillips: thank you!
01:08:45 Katherine Stanford: This is really useful. Thanks.
01:08:46 Chrstina Jameson: Thank you!
01:08:46 Milagros Carbonera: I learned a lot
01:08:46 Christina Capuano: Very interestin
01:08:46 Heide Kaminski: cool
01:08:47 Larry Arnett: very fun and thoughtful
01:08:47 Marie Hannon: loved it...thank you!
01:08:48 Carol Matsumoto: Thank you Patrick. Thank you Faith and Lorie
for hosting.
01:08:48 Kendra Edwards: Thank you
01:08:48 Kimberley Perez: very informative and fun. thanks
01:08:49 Maria Gonzalez: Thank You!
01:08:50 Katie Gibson: I now have my activity for my Math 7 team meeting

tomorrow morning!!

01:08:50 Robin Schwartz: thanks for the great problems!
01:08:51 Kerrie Becker: Excellent webinar! Love the problems, times to give them a try, and the quote on productive struggle. Great organization of presentation.
01:08:51 Amy Lieberman: Ideas for lower elementary school?
01:08:51 Debi Csulak: Great presentation. Thank you.
01:08:51 Michelle Funai: Loved your presentation! Hope to attend one in person one day!
01:08:51 Tim Bobay: Excellent Job!
01:08:51 Tracie Best-Harris: Thank you!
01:08:52 Dave Hankin: Was going to ask that!

01:08:52 Martisha Dunn: Thank you!
01:08:52 Christina Hall: This is awesome! Looking forward to using these in my classroom.
01:08:52 Shelley Hunter: Thanks ... about Gauss he was calculating the 100th triangular number
01:08:53 Diane Leighty: Nice job! Thank you!
01:08:53 Rita Shamrock: definitely think and ponder
01:08:54 DeShonda Thigpen: Thank you
01:08:54 Wanda Parker: This was great! Thank you!
01:08:55 Tessie Menta: Thank you
01:08:58 Duano Sapta Nusantara: so inspiring
01:08:59 Camille Nemanic: How do you help students who just shut down when problems are presented?
01:08:59 Robin Robinson: that was my question
01:09:00 Jasmine King: 9/14?
01:09:01 mary zarra: This was great!! Thanks for your time and effort!
01:09:02 Milagros Smith: thank you. I'm looking forward to play with this.
01:09:05 Hsiao-Ting Chiou: Thank you!
01:09:06 Laura Partridge: Great stuff - thanks.
01:09:06 Tamara Vassell: Where did you come across the problems?
01:09:07 Lucinda Lawson: I love math!!!
01:09:09 Konnie Guthrie: This was awesome!
01:09:09 David Martinez: Thank You
01:09:10 Phyllis Creech: Thank you!
01:09:11 Shiv Gaur: Thank you!
01:09:12 Catherine Anderson: Awesome, thank you!!!
01:09:12 Janice Holland: loved this - can't wait to use some of these problems as warm-ups for my Algebra 1 students
01:09:12 Kelley Manning: Thank you!! This was very engaging
01:09:13 dana dulzo: thank you so much for making math fun not tedious
01:09:14 Jocelyn Gabrinao: Thank you! Very interesting
01:09:15 Candice Smith: Thanks, I teach Math 2 in HS?
(inclusion/academic/honors)
01:09:18 Roberta Yeager: Thank you - Helps think about what I am currently doing.
01:09:23 Konnie Guthrie: No complaints!

01:09:24 Imelda Garcia: thank you. this is great. interesting
01:09:25 Stephanie Crocker: One of the best webinars. I love how I can
"change" the problems to fit my students needs.
01:09:26 Anne Booth: YES!
01:09:27 Robin Harbour: I teach a math intervention class in a middle
school---I'm using the fraction numberline next year. I LOVE this!
01:09:28 Charis Olson: Thank you. Very interesting.
01:09:28 Mark Phipps: Dude, this was awesome! I love the hailstone
sequence / collatz conjecture and those type of problems. Where can I get a
ridiculous quantity of these problems?
01:09:29 Veronica Kwok: These are awesome! I'm excited to see the other
problems! I'm figuring them out for my high school ELL students (in person,
hopefully.)
01:09:29 Tracy Wood: Best source for Low Floor, High Ceiling Math Tasks?
01:09:30 Kathy Woodward: Thank you
01:09:30 caroline maserang: These questions may be good to use when
teaching students about the Growth Mindset
01:09:32 Lucinda Lawson: they should have.... had
01:09:32 Danielle Bentley: Eli's Father, you are wonderful! Thank you
so much! I have learned a ton! I wish you were my teacher, you are so easy going!
Thank you for your time. I cannot wait to get the materials!
01:09:33 Cecila Adamson: I teach adult education, so I believe these would
work great with them too.
01:09:33 Genesis Reyna: Can we be sent these problems please?
01:09:34 Beth Kobett: That is what makes it a great problem!
01:09:37 Pendo Nyanda: the strategies are perfect for warm up and concepts
spiral
01:09:39 Ronald Austria: I love those problem in which I can share to my
students. very inspiring!! thank you
01:09:42 Ashley Edwards: how would you use the 100 when explaining how to
write how many days in school for first grade?
01:09:44 Doug Campbell: I like how compliments is big and compliants are
small haha
01:09:46 Karen Campbell: Great session- thanks so much
01:09:51 Robin Schwartz: LOVE these thinking problems
Are these questions Googleable? Students are more dependent on the Internet thank
ever
01:09:54 Sylvia Frazier: thought provoking!
01:09:54 Candice Smith: are there any HS Math 2 problems or Math 3?
01:09:55 Jasmine King: This was a WONDERUL webinar! Thank you I'm trying to
get my middle school students to be more independent.
01:09:56 Catherine VanNetta: What was your most surprising solution
method to a problem you posed?
01:09:57 Doug Campbell: Love your passion and love for math
01:09:59 Ramona Hall: I can use this with my elementary kids!
01:10:01 Pamela Liegl: Thanks Patrick for great problems, fun, challenging.
01:10:02 Michelle Funai: Kudos on your engagement capabilities - to keep us
all engaged despite the distance!
01:10:03 ELLA CABRERA: Thank you
01:10:04 Leslie Texas: Thank you!

01:10:05 Leanna Foreman: Just put two and two together that you're the author of the book Math Joke 4 Mathy Folks! I've had it for a while now :)

01:10:06 Betsy Smith: It works much better in Math Counts if I don't look at the problems first because then I don't try to encourage the kids to solve it "my" way. Then they come up with a million ideas I never thought of.

01:10:10 Heidi Nunes: Thank you for the strategies. Problems were fun :)

01:10:16 Jennifer Suh: You are amazing Patrick! THANK YOU!!!

01:10:19 Kelli Freiwald: favorite resources?

01:10:19 Delia Joseph: Thank you very much!

01:10:20 Deniz Çakır: Thank you, awesome

01:10:23 Pendo Nyanda: Great for math talk

01:10:26 Heidi Nunes: i love math counts

01:10:30 Kelly de Lemoa: I teach 3rd and 4th grade math—these kind of problems are great for such a range of learners!

01:10:33 Susie Loh: Thanks! Great session

01:10:33 Janet Jimenez: Thank you for such an engaging session.

01:10:34 Doug Campbell: outside the box math is fun. thanks

01:10:35 Shiv Gaur: AoPs

01:10:39 Linda Rodriguez: can you make a list?

01:10:40 Michelle Funai: Haha that's why I like this :) MathCounts Rulez!

01:10:45 Laurie Skaggs: My husband is weighing 5 dimes vs 2 quarters on our cooking scale right now!! Our family loved that question!

01:10:46 Jessica Barrier: This was awesome, thank you!

01:10:50 Jennifer Webb: Would you put a book list?

01:10:50 Ratu Ilma Indra Putri: Thank you, awesome

01:10:53 Natalie PIpe: Yes a list!

01:10:53 Linda Rodriguez: Thank you

01:10:57 Kathy Woodward: Make a list please. ty

01:10:58 Lyn Pizzano: It was awesome! Thank you!

01:10:59 Christina Hall: Awesome, thank you!

01:11:00 Molly Rawding: Thank you!!

01:11:01 Tamara Vassell: Are there videos to go with the problems/

01:11:01 Cecila Adamson: Thank you

01:11:01 Stacy Milas: Thabk you!!

01:11:03 Jet Yeung: Thank you for the information. Great challenging work.

01:11:04 Samara Booker: Thank you!

01:11:06 Jean Young: wow! math is fun!

01:11:06 Bina Kachwalla: thanks

01:11:07 Kelli Freiwald: this was a really really great presentation! thank you

01:11:08 Rita Shamrock: Thank you

01:11:08 Shiv Gaur: Thank you so much!

01:11:10 Sylvia Frazier: Wonderful.

01:11:10 Taji Williams: Thank you.

01:11:12 Tanya Landry: Fun. Thanks.

01:11:13 Francis Kisner: Thank you.

01:11:14 Kathy Monk: The address for the value calculator

01:11:14 Milagros Carbonera: Thank you

01:11:14 Shannon Hammond: Thank YOU

01:11:17 Sherry *Bovey: I love the examples you have given.
01:11:17 Wilma Fulgencio: I like all the problems u presented. Thank
you
01:11:18 Sharon Shrum: thank you
01:11:20 Emily Kavanagh: Thanks so much for this
01:11:24 Stephenia Courtney: Thank you!
01:11:24 Kathleen Williams: This was nice to do some problems!
01:11:28 Vi Tamargo: Thank you Patrick!
01:11:28 ROSALYN BANTAY: Thank you!
01:11:31 Carole Bamford: Thank You!
01:11:31 Tracy Wood: What is your opinion on 3-Act Tasks?
01:11:33 Ma. Donata Radaza: Thank you very much for sharing your
expertise
01:11:36 Katie Johnson: Love the MLC.
01:11:36 linda fulmore: it is great to do some mathematics. thank you nctm
01:11:37 Emily Kavanagh: Wow you sounded like a teacher
01:11:43 Toni Galassini: Great resources from MLC! We use them throughout
Chicago.
01:11:46 Lora Deiter: These would be some great middle school
activities...especially for tier 2 and 3 work to fill insome of their learning gaps.
01:11:50 Stephanie Crocker: Do you facilitate other webinars?
01:11:52 Kathleen Morris: Thank you, Patrick! I always enjoy your
presentations...and your mathy jokes!
01:11:52 Anne Booth: I LOVE the MLC! Used Opening Eyes to Math and
Bridges a number of years ago.
01:11:52 Katie Gibson: Does the Math Learning Center only work for PPS or
do you share with other Oregon/Washington districts?
01:11:55 Alma Vital-Abers: Thank you for sharing the strategies/ideas
01:11:56 Robin Schwartz: thanks for sharing...is there a way to make these
nongoogleable??
01:11:56 Sharon Benthkowski: Great ideas even with just what you
presented. Cannot wait to see the rest! Thank you.
01:11:57 Margie Acabal: thank you..
01:11:59 Nadia Messadi: Thank you!
01:12:04 Lauren Davis: Are some of the problems good for high school math,
as well?
01:12:04 Vicki Roman: Thank you!
01:12:10 Stephanie Byrd: Thank you!
01:12:13 Janet Jimenez: I can definitely see elementary students exploring
with the grid as area models.
01:12:21 Mark Phipps: Least square from YouCubed is fun and many levels
01:12:25 Quianna Watkins: Not many Math webinars interest me like
yours did this evening! Kudos and I look forward to seeing you present again!
♡♡♡
01:12:28 Konnie Guthrie: I thought I recognized the graphic. The Math
Learning Center is wonderful and their publications are free.
01:12:40 Terri McCarthy: Great job, thank you
01:12:40 Marie Hannon: i use bridges and love it for my struggling students
01:13:01 Diane Anderson: Thank You.....
01:13:02 Candice Smith: I teach High School Sophmore and Juniors (NC MATH 2

and NC MATH 3), are any of these problems good for that grade level????

01:13:18 Paul Lavery: is your second math joke book on Amazon?

01:13:18 Ramona Hall: notice/wonder works with so many subjects!

01:13:28 Patti Gawronski: using a poll is a great idea too

01:13:37 Tamara Vassell: Thank this was a good presentation a good challenge

01:13:59 Doug Campbell: like that idea

01:14:00 Bina Kachwalla: Love 5 practices : allows these strategies to work

01:14:00 Tamara Vassell: Good idea

01:14:04 Doug Campbell: relationship building

01:14:08 Christina Tully: That's a great idea!!

01:14:08 Kelli Freiwald: I just realized I've had your book for a long time!

01:14:14 Heidi Nunes: Not sure where (or whether) it fits here, but I was intrigued in one of my college classes about the patterns found in the decimal equivalents for sevenths, ninths, and thirteenths. Are there other denominators this works for?

01:14:21 Tien Huynh-Dinh: Would 52 be 50 (1x1) and 2 (5x5)???

01:14:26 Candice Smith: HS problems???

01:14:39 Beth Kobett: That is a golden rule! :)

01:14:48 PATRICK GUERRA: Great idea

01:14:57 William Luke: The process is more important than the answers

01:15:04 Mark Phipps: This was good stuff. I actually got out a container of coins and was looking for a 1971 quarter and wondering if our digital kitchen scale could notice the difference in various years...

01:15:06 Kathleen Morris: ...or consider what's reasonable if there are multiple solutions

01:15:20 Camille Nemanic: I agree that we HAVE to work out problems on our own first.

01:15:23 Kiera Bruce: I agree!! the process is more important than the answer!

01:15:28 susan mitzner: thank you thank you - I have been screaming about adding to math curriculum some activities to develop critical thinking skills not just mandating a curriculum and being trained to spit out what we are being trained - I am in elementary school math interventionist

01:15:30 Tyler Hamilton: !!!!!!

01:15:34 Veronica Kwok: YESSSS

01:15:34 Heidi Nunes: yay

01:15:35 Patrick Anderson: Easily one of the best webinars i have seen inthe last two weeks. Thank You!

01:15:36 Robin Schwartz: Heidi Nunes unit fractions?

01:15:37 Emerson Roman: Great!

01:15:39 Candice Smith: THanks

01:15:41 Duano Sapta Nusantara: yeyyyy

01:15:45 Julia Jones: Thanks so much! This was fun!

01:15:45 Macobia Harris: thank you

01:15:46 Faith Peddie:

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01:15:47 Janet Jimenez: Thank you very much.

01:15:50 Daniel Irving: Thank you for this incredible presentation!

01:15:51 Kathleen Williams: Thank you!

01:15:52 Natalie Fawthrop-Pooler: Fantastic

01:15:55 Jasmine King: THANK YOU@@@
01:16:00 Brenda McNeese: So fun, thanks.
01:16:00 Faith Peddie:
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01:16:03 Lesly Brown: Thank you.
01:16:04 Heidi Nunes: Robin Schwartz: 1/7, 2/7, 3/7, etc to 7/7
01:16:06 Aisha Gaisi: THank you!!!
01:16:06 Robin Robinson: Thank you, Patrick
01:16:07 Kiera Bruce: thank you! this was amazing
01:16:08 Duano Sapta Nusantara: tks
01:16:13 Dave Hankin: I had a question, but it was never addressed.....
01:16:14 Faith Peddie: Here is a link to the 100 problems
https://mathjokes4mathyfolks.files.wordpress.com/2020/05/100problems_webinar.pdf
01:16:14 Carole Bamford: These sessions just keep getting better!
01:16:14 J. Lyn Miller: Thank you!
01:16:14 Theressa Sawyer: thank you
01:16:19 Anne Booth: It's full. :(
01:16:19 Darci Evans: Thanks so much!
01:16:19 Kathleen Morris: next week
01:16:24 PATRICK GUERRA: Thank you NCTM for sharing
01:16:32 Camille Nemanic: Thank you so much. This was a wonderful
webinar.
01:16:33 Cathy Chaput: Thank you so much
01:16:33 Pati Kiley: Already received certificate. Thank you!
01:16:36 Jorge Veloso: Not tomorrow, monday
01:16:40 Lance Brauchla: enjoyed this
01:16:42 SAPNA SHARMA: Thank You Patrick it was real interesting & I can
use some examples in my class.
01:16:44 Heidi Nunes: All repeating fractions with a cool pattern.
01:16:45 Shari Sklar: There's a class tomorrow? I thought there weren't
any on Fridays.
01:16:50 Marilu Deal: This was awesome!
01:17:00 Louis Cicero: Thank you Patrick
01:17:01 Maureen Kishbaugh: Love these problems. Exercises are like
calisthenics. They are important in preparing for the big game, but they sure aren't
the game.
01:17:01 Marilu Deal: Thank you!
01:17:01 Hong Pun: Thank you that was fun practice with some productive
struggle!
01:17:05 Gracemary Mannion: YOu said that webinar is tomorrow but I had
down that it is 5/18 and that is what your slide said too.
01:17:06 Faith Peddie: Here is a link to the 100 problems
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01:17:10 Tessie Menta: Awesome! Thank you
01:17:19 Linda Rodriguez: Tomorrow? Or Monday for the next one?
01:17:25 Wanda Parker: Thank you!
01:17:26 Beth Kobett: Thank you! Monday for the next one!
01:17:29 Nadia Messadi: Its on monday
01:17:31 Larry Arnett: thank you
01:17:34 Emerson Roman: Happy Teachers Day to all those in Mexico!

01:17:37 Christina Hall: Thank you!
01:17:38 Brian Stocker: What is the site he used to check the number of
words
01:17:43 Shari Sklar: Thank you!!
01:17:43 Ma. Donata Radaza: Thank you very much for the privilege
01:17:43 Shiv Gaur: Thank you all!
01:17:44 Milagros Carbonera: thank you
01:17:44 Sahar Alkhatib: Thank you. It was amazing.
01:17:45 Nicole Rigelman: Thanks Patrick :)!!
01:17:45 Patrick Montague: Thanks
01:17:45 SAPNA SHARMA: THANK YOU
01:17:46 Konnie Guthrie: Great!
01:17:46 Dave Hankin: Thank you from Globe, Arizona.
01:17:48 Yin-Tzu Huang: Thank you!
01:17:49 Sharon Ling: Thank you!
01:17:50 PATRICK GUERRA: Thanks a lot!
01:17:51 Chonda Long: The next session is on Monday
01:17:52 Jimanese Bentley: What time next class?
01:17:52 Rossini Ortega: Thank you!
01:17:53 Toni Galassini: Thank you!!
01:17:54 Aura Fortaleza: Thanks!
01:17:54 Luzviminda Bayarong: Thank You
01:17:56 Faith Peddie: Here is a link to the 100 problems
https://mathjokes4mathyfolks.files.wordpress.com/2020/05/100problems_webinar.pdf
01:17:56 Maureen Kishbaugh: Thanks
01:17:56 Tenisha Marcel-Herbert: Thank you so much!
01:17:59 Suzanne Weidner: Thank you
01:18:00 Jet Yeung: Thank you.
01:18:00 Tamara Vassell: Thank you
01:18:02 Patrick Vennebusch: Thanks, everyone!
01:18:04 Aya Zvaigzne: Thank you and many blessings to all
01:18:08 Kelli Epperson: Thanks guys
01:18:13 Maria Padiernos: Gracias from Southwest Detroit, ruby
01:18:13 Veronica Kwok: I feel more excited next year! Thanks!
01:18:15 Emerson Roman: ¡Gracias! from Mexico City
01:18:15 Nadia Messadi: Thank you!
01:18:19 Guadalupe Alvidrez: Thank you!
01:18:23 Chrystina Harich: Thank you!
01:18:23 Noe Eugenio: 100 thanks to Patrick!
01:18:28 Beverly Krump: Thank you
01:18:28 Liz Magno: thank you
01:18:29 Deniz Çakır: Thank you from Turkey
01:18:30 Mary Johnson: link went tooo fast
01:18:30 Jennifer Webb: Have the kids write them!
01:18:31 Melissa Luzano: 99+1
01:18:32 Denise Adham: Thank You!
01:18:33 Ratu Ilma Indra Putri: LUAR BIASA. TERIMA KASIH THANK YOU
01:18:35 PATRICK GUERRA: 10q
01:18:35 Faith Peddie: Here is a link to the 100 problems
https://mathjokes4mathyfolks.files.wordpress.com/2020/05/100problems_webinar.pdf

01:18:35 Melissa Luzano: jinx
01:18:37 Heidi Nunes: Thank you so much!!
01:18:49 Ann Hammonds: This was wonderful. Thank you!!
01:18:54 Myra Absin: Thanks
01:18:55 J. Lyn Miller: yes
01:19:02 Maureen Kishbaugh: amen
01:19:06 Lucinda Lawson: Please show that 10 x 10 again...
01:19:10 Lucinda Lawson: I want to see the pattern...
01:19:11 Angelita Beltran: Thank you!
01:19:16 Jasmine King: THANK YOU ALL so much!
01:19:28 Faith Peddie: Here is the 10x10 platform
<https://docs.google.com/spreadsheets/d/1Zb59uljomNZBdt46gQVgmqfDMnRbr2VhmXzJ1PR5-0k/edit#gid=0>
01:19:30 Lisa Chang: Thank you!!
01:19:48 Mark Phipps: After you have a drink
01:19:55 Tien Huynh-Dinh: thanks!!
01:20:09 Lucinda Lawson: Are opposites that add to 100 different?
01:20:12 Brandi Ledbetter: Wonderful group of people
01:20:18 Kiera Bruce: thank you goodnight!