



September 9, 2021

GLEN HILLS



*We are a community in which everyone takes responsibility for challenging themselves to learn and grow.
We are a community that respects ourselves, others, and our school community through our words and works.
We are a community that welcomes, includes, affirms, and celebrates individual differences.
We are a community that builds trusting relationships through honest and positive interactions.*

8TH GRADE CLASS OF 2022 NORTH STARS

By: Ms. Young, Principal and Mr. Williams, Associate Principal

The Glen Hills 8th Grade Class of 2022 served as "North Stars" by taking the lead with our 4th and 5th grade scholars by teaching them all about The Glen Hills Way this past Thursday. Engaging in this leadership opportunity allowed our 8th Grade scholars the ability to serve their school community as role models. Some remarkable takeaways from the activity were the laughter, smiles, and compassion experienced by all. Our 8th Grade scholars exemplified the Glen Hills Way and our 4th and 5th Grade scholars were put at ease to learn that they had friends and role models in the older students they attend school with.



Safety Reminders

The health of the community inside and outside of school is everyone's responsibility. We ask that you engage your scholar each school day in the Self Screener and if symptoms are present that your scholar remains home, is not in contact with peers, and gets tested. Additionally, please talk with your scholar about the importance of wearing a mask properly, maintaining distance, and adhering to safety protocols in place at school. Our partnership in safe practices will minimize spread and promote the health and well-being of students, teachers, and families.

DAILY SELF-SCREENER

DID YOU START TO EXPERIENCE ANY OF THE FOLLOWING SYMPTOMS SINCE YOU LAST WERE IN SCHOOL? IF YES, PLEASE DO NOT REPORT TO SCHOOL TODAY.

- TEMP OF 100 OR HIGHER
- SORE THROAT
- NEW UNCONTROLLED COUGH THAT CAUSES DIFFICULTY BREATHING (FOR THOSE WITH CHRONIC ALLERGIC/ASTHMATIC COUGH, A CHANGE IN THE COUGH FROM THE BASELINE)
- DIARRHEA, VOMITING, OR ABDOMINAL PAIN
- NEW ONSET OF SEVERE HEADACHE, ESPECIALLY WITH A FEVER
- CHILLS
- FATIGUE
- MUSCLE OR BODY ACHES
- NEW LOSS OF TASTE OR SMELL
- CONGESTION OR RUNNY NOSE (NOT DUE TO SEASONAL ALLERGIES)



IMPORTANT INFORMATION

SCHEDULES

Schedules for scholars continue to be finalized. Please note that scholar schedules may be subject to change to ensure access for all to the highest quality programming.

STUDENT & FAMILY HANDBOOK

To access the Student-Family Handbook, filled with valuable and incredibly important information, click the [link](#). Please review the Dress Code and make sure your scholar(s) are dressed for success everyday!

PARENT PICK-UP/ DROP-OFF



GLEN HILLS MIDDLE SCHOOL

DROP OFF & PICK UP REMINDERS FOR FAMILIES

Enter Right Into The Lot From Mill Rd.
Stay In The Car Lane
Drive Slow
Stay Focused
Watch Out For Students & Staff
Merge Carefully As You Leave The Carpool Lanes
Exit Right Onto Mill Rd.

BUSING

Glen Hills has a partnership with Riteway Bus Company. Please reach out to Riteway at 414-226-5481 with any busing concerns.

INFINITE CAMPUS

Infinite Campus is our District's student management system. Infinite Campus is an online system where families can go to stay up to date on grades, attendance announcements, schedules and more. If you are experiencing challenges when logging into Infinite Campus, please reach out to Patti Walters at patti.walters@glendale.k12.wi.us or atext. 2104

THURSDAY FOLDERS

We will continue to provide families with important school and district information utilizing our **online** Thursday Folders.

COMMUNICATION

Throughout the school year, your scholar's teachers will keep you informed via emails, phone calls etc. If you have questions or concerns, please reach out to your scholar's teacher as the first step in fostering a strong partnership to benefit your scholar. If they cannot address your questions and/or concerns, they will point you in the direction of someone who can help to support. If after speaking to the teacher and reaching out to their recommended resources, you need additional information or support, feel free to contact either Ms. Young or Mr. Williams



GLEN HILLS *Welcomes*



Ms. Kibitlewski
4th ELA & Social Studies



Ms. Ahmad
6th Special Education



Mr. Grabowski
6th Math



Ms. Cefalu
4th ELA & Social Studies



Ms. Rias
5th Math & Science



Mr. McClendon
5th Math & Science



Ms. Young
6th Science



Mr. Johnikin
7th/8th Special Education



Mr. Johnson
Physical Education



Ms. Smrz
General Music/Choir



Mr. Holdren
Special Education
Paraprofessional





Parent
Teacher
Organization

GLEN HILLS/PARKWAY PTO DIRECTORY INFORMATION & MEMBERSHIP FORM

OUR MISSION: To make a difference in our children's education through involvement at home, in school and in the community!

Parent/Guardian Information:

Last name	First Name	
Last name	First Name	
Address		
City	State	Zip
Primary phone	Primary email	
Secondary phone	Secondary email	

Children Enrolled at Parkway and Glen Hills:

Last name	First name	Grade
Last name	First name	Grade
Last name	First name	Grade
Last name	First name	Grade
Last name	First name	Grade

School Directory Confidentiality:

Check all that apply. Anything *not* checked will be printed in the directory:

- ☐ Do NOT print my home address in the directory
- ☐ Do NOT print my email address in the directory
- ☐ Do NOT print my phone number in the directory
- ☐ Do NOT print parent/guardian names in the directory



Membership:

PTO Membership costs \$10 and includes 1 free copy of the School Directory. Additional Directories are available for \$5 each.

_____ 1 Directory (\$10) _____ 2 Directories (\$15) _____ 3 Directories (\$20)

Payment can be made by cash, check payable to "Glen Hills/Parkway PTO", or digitally by following this QR code.

_____ Check /Cash _____ Digital*

Paid on _____

*Digital payments cost the PTO 80 cents per transaction.
Please consider checking the 'Cover Fees" box.



Contact me if you need someone to:

- ☐ Join a committee organizing large events (email and phone only, unless the committee decides to meet)
- ☐ Show up and help out (usually a 1 hour commitment, there are many opportunities throughout the year)
- ☐ Coordinate vendors (for example, ordering teacher conference dinners or organizing fundraising)

You are not committing to anything, just letting us know what opportunities interest you. We will contact you with more information.

PTO meetings are held at 6:15 pm on the second Monday of the month in the Glen Hills Library.
Free babysitting is provided!



Dear Parkway and Glen Hills Families,

The PTO is back! Well, honestly, we never left. We weren't able to hold any of our fun activities last year, but we kept busy getting school masks for all the students, organizing teacher dinners at conference times, raising money for a Gaga pit at Parkway, and coordinating the school supply pack sale.

But this year, case numbers are down in our area, our volunteers are vaccinated, and we are so excited to do things together, as a community. Here are some things you should know:

- We need your directory information! To create a school directory, we need your help! The school cannot give us student information. We will not publish any information you do not want us to publish, but if you want your kid invited to play-dates and birthday parties, please fill out the online form here: https://docs.google.com/forms/d/e/1FAIpQLSff3GGtgElErFx-oBs8yMRJoGw-P_scr6AUae7BOqdARWDMAQ/viewform?vc=0&c=0&w=1&flr=0&usp=mail_form_link
- We're doing less fundraising. The wrapping paper/cookie dough fundraiser has not been a huge success, so we are letting it go. You will have a chance to fundraise later in the year when we sell Coffee and Pretzels again. Otherwise, you are always welcome to make a tax-deductible donation to the PTO.
- We're planning events again! We want to bring back Fall Fest for Parkway students, and Family Activity Nights for Glen Hills students – but we need help! Please email glendale.riverhills.pto@gmail.com if you would like to join a planning committee for either event.
- We have a lot of opportunities to make a difference. It doesn't matter if you want to spend all day volunteering at the school, or you have ten minutes to make a call over your lunch break, or you just want to send a check and forget it – the PTO is grateful for whatever support you give us.

Please join us at our meetings on the second Monday of every month in the Glen Hills Commons, from 6:15 PM to 7:00 PM to learn about all the great opportunities we have. There will be a play area for children. Masks and social distancing are required. Our first meeting is next week, September 13th.

You can also follow us on Facebook and read all our announcements in the Thursday Folders.

Sincerely,

Melanie Hinchey

Parkway/Glen Hills PTO President



GLEN HILLS/PARKWAY PTO MEETING

September 13, 2021 – 6:15 PM – 7:30 PM

Glen Hills Commons

**** We will be following all covid protocols. There are many tables to keep everyone socially distanced and masks will be required while in the commons area. The commons also has its own air exchange****

AGENDA

- 1. Call to order, introductions and approval of prior meeting minutes.**
- 2. Staff Reports**
 - a. Dr. Haydee Smith (Parkway principal) - not in attendance
 - b. Anna Young (Glen Hills principal) - not in attendance
 - c. Alyson Weiss (district superintendent)
- 3. Treasurer's Report**
- 4. Teacher Grants (School District Foundation)**
- 5. Event/Activity Updates and Highlights**
 - a. Directory
 - b. Fall Fest (Parkway)
 - c. Family Activity Night (Glen Hills)
 - d. Leadership Needs
 - e. Volunteer Needs for events
- 6. Upcoming Events and Important Dates until next PTO meeting**
 - a. No School – Thursday, September 16th
 - b. Foundation Run/Walk – Friday, September 24th 6 PM – 8 PM
 - c. Picture Re-Take Day – October 1st

THANK YOU FOR COMING!

NEXT MEETING: October 11, 2021 – 6:15 PM – 7:30 PM

Glen Hills Commons

**OVER
THE HILLS
AND THROUGH the
PARK**

EVERYbody
HEALTH AND MINDSET



FRIDAY, SEPTEMBER 24TH, 2021

ARRIVAL/RAFFLES

5:15-5:45PM

RUN START TIME

6:00 PM

COME FOR THE RUN, STAY FOR THE FUN!

We will have complimentary food and drinks post race, along with music and fun on the playground!



Parkway Elementary School
5910 N Milwaukee River Parkway

Registration: [Runsignup.com](https://runsignup.com)

<https://runsignup.com/Race/WI/Glendale/OverTheHillsandThroughthePark5k>



YAC

YOUTH ACTIVITY CENTER

New this year!
Purchase a YAC pass for \$15.

To pay, log into the Parent Portal on Infinite Campus and click on Fees, then go to Optional Fees.

Call Glen Hills at 414-351-7160
with any questions.

Payment for YAC will only be accepted through Infinite Campus and at the \$15 annual fee.

NICOLET GIRLS YOUTH BASKETBALL

The Nicolet Girls Youth Basketball Director and Coaches are committed to making this youth basketball program a great experience. NGYB is designed to advance fundamentals of basketball and to develop leadership, teamwork, patience, self-respect and the respect for other players and coaches. Girls will play in a competitive environment to help gain experience and potential interest to play in MS and HS. We applaud the efforts of the team and reinforce the importance of teamwork to our players. All efforts are made to ensure quality playing time for all participants.

Nicolet Girls Youth Basketball program is open to girls attending a school in the Nicolet Partner School District who will be attending grades 3rd through 8th during the year of participation. All participants are provided an opportunity to contribute to their team through practice and game-day participation.

Teams practice typically 1-2 times a week beginning in October into March at Nicolet High School. League games will be played on Sundays at Brown Deer High School. In addition they will play in three different local tournaments. This program's intent is to provide a complete experience to participants and parents alike.

The Nicolet Girls Youth Basketball program participants need to attend and register for the evaluation day on

Sunday, September 19th from 2:30 - 4:30pm at Nicolet High School in Gym 1. There is no charge to attend the evaluation, but participants must register prior to participate. Full refunds are available through October if your child does not want to continue in the program.

Registration Fee: \$185.00

Cost includes league & tournament fees, equipment and facility costs to practice. **Uniforms costs are separate, approximately \$60.00.** More information on how to purchase a uniform will be provided at a later date.

Evaluation Day Registration

Grade:	Program#:	Grade:
3rd & 4th	211053-06	3rd & 4th
5th	211053-07	5th
6th	211053-08	6th
7th	211053-09	7th
8th	211053-10	8th

Season Registration

Program#:
211053-01
211053-02
211053-03
211053-04
211053-05



JR. KNIGHTS SELECT BOYS BASKETBALL

The Jr. Knights Director and Coaches are committed to making this youth basketball program a great experience. Jr. Knights Select Boys Basketball is designed to advance fundamentals of basketball and to develop leadership, teamwork, patience, self-respect and the respect for other players and coaches. The objective of the Jr. Knights program is not about winning, but learning. We applaud the efforts of the team and reinforce the importance of teamwork to our players. All efforts are made to ensure quality playing time for all participants.

Jr. Knights Select Boys Basketball program is open to boys attending a school in the Nicolet Partner School District who will be attending grades 3rd through 8th during the year of participation. All participants are provided an opportunity to contribute to their team through practice and game-day participation. All necessary equipment and uniforms are furnished by the Jr. Knights Select Boys Basketball program.

Teams practice typically 2-3 times a week beginning in October thru March at various schools in the Nicolet District. Games and/or tournaments take place on weekends and begin in November and go thru March. This program's intent is to provide a complete experience to participants and parents alike.

Please note that if enrollment numbers exceed the number of spots available on a team then the program will have to make cuts. Although we would love to keep every interested player in the program, we cannot keep all the players and provide adequate playing and practice time for that many boys.

In order to play for the Jr. Knights Select Boys Basketball program participants need to attend and register for the evaluation day on

Sunday, September 19th from 12:00 - 2:00pm at Nicolet High School in Gym 1. There is no charge to attend the evaluation, but participants must register prior to participate.

Registration Fee: \$185.00

Cost includes league & tournament fees, equipment and facility costs to practice. **Uniforms costs are separate, approximately \$60.00.** More information how on to a purchase uniform will be provided at a later date.

Evaluation Day Registration

Grade:	Program#:	Grade:	Program#:
3rd/4th	211031-06	3rd/4th	211031-01
5th	211031-07	5th	211031-02
6th	211031-08	6th	211031-03
7th	211031-09	7th	211031-04
8th	211031-10	8th	211031-05



register online at: <https://web2.vermontsystems.com/nicolet.html>



Nicolet Recreation Department
6701 N. Jean Nicolet Rd.
Glendale, WI 53217

Phone: (414) 351-7566
Fax: (414) 351-4053



Website: <https://www.nicolet.us/activities/recreation.cfm>

Nicolet Recreation



Max Brallier
Zooming with Glen Hills Middle
School
and Parkway Elementary
Books Provided by **Boswell Book Company**

Max Brallier, author of The Last Kids on Earth series, is Zooming with Glen Hills Middle School and Parkway Elementary School on Thursday,

Sept. 23rd, 2021 at 1:00pm. During his virtual presentation, Max speaks about his journey to becoming a writer and about THE LAST KIDS ON EARTH series. Max will also spend time answering audience questions, which can be typed into the chat during the presentation.

Boswell Book Company, a Wisconsin-based independent bookstore, is offering you a chance to purchase this title at a 20% discount. The prices of the titles include tax. We are discounting [The Last Kids on Earth and the Doomsday Race](#), at \$11.99 in advance of the event. The books will be brought to the school and given to students at the presentation.

If you wish to purchase this book, please fill out the order form below and return it to school with payment by **Friday, Septmeber 17th**. *Please note: The presentation will include ONLY Grades 3 – 5, but book orders are open to students Grades 2 – 8.*

Ever since the monster apocalypse hit town, average thirteen-year-old Jack Sullivan has been living in his tree house, which he's armed to the teeth with catapults and a moat, not to mention video games and an endless supply of Oreos and Mountain Dew scavenged from abandoned stores. But Jack alone is no match for the hordes of Zombies and Winged Wretches and Vine Thingies, and especially not for the eerily intelligent monster known only as Blarg. So Jack builds a team: his dorky best friend, Quint; the reformed middle school bully, Dirk; Jack's loyal pet monster, Rover; and the fiercest girl Jack knows, June. With their help, Jack is going to slay Blarg, achieve the ultimate Feat of Apocalyptic Success, and be average no longer! And now in book seven, The Doomsday Race, Jack and his friends encounter old allies...as well as old foes._____

Please make checks payable to either Glen Hills Middle School or Parkway Elementary

Name: _____ Telephone #: _____

Teacher: _____ Grade: _____

Number of copies at \$11.99 each _____ TOTAL included _____

Family Support Materials

Area and Surface Area

Here are the video lesson summaries for Grade 6 Unit 1, Area and Surface Area. Each video highlights key concepts and vocabulary that students learn across one or more lessons in the unit. The content of these video lesson summaries is based on the written Lesson Summaries found at the end of lessons in the curriculum. The goal of these videos is to support students in reviewing and checking their understanding of important concepts and vocabulary. Here are some possible ways families can use these videos:

- Keep informed on concepts and vocabulary students are learning about in class.
- Watch with their student and pause at key points to predict what comes next or think up other examples of vocabulary terms (the bolded words).
- Consider following the Connecting to Other Units links to review the math concepts that led up to this unit or to preview where the concepts in this unit lead to in future units.

Grade 6, Unit 1: Area and Surface Area	Vimeo	YouTube
Video 1: Reasoning to Find Area (Lessons 1–3, 11)	Link	Link
Video 2: Parallelograms (Lessons 4–6)	Link	Link
Video 3: Triangles (Lessons 7–10)	Link	Link
Video 4: Surface Area (Lessons 12–15)	Link	Link
Video 5: Distinguishing between Surface Area and Volume (Lessons 16–18)	Link	Link

Video 1

Video 'VLS G6U1V1 Reasoning to Find Area (Lessons 1–3, 11)' available here:
<https://player.vimeo.com/video/443554693>.

Bridges in Mathematics

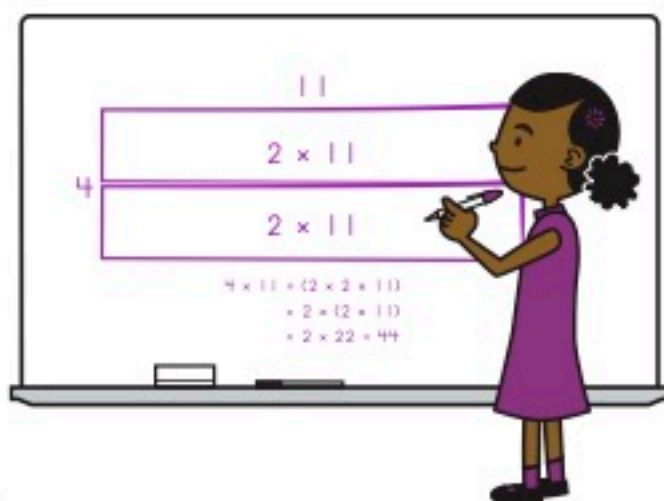
Grado 4 Unidad 1

Razonamiento multiplicativo

En esta unidad su hijo:

- Multiplicará y dividirá con fluidez hasta 100
- Aplicará las propiedades de operaciones como estrategias para multiplicar y dividir
- Usará la multiplicación y división hasta 100 para resolver problemas de texto en situaciones que involucran grupos iguales, matrices y cantidades de medida
- Encontrará el área de un rectángulo

Su hijo aprenderá y practicará estas habilidades por medio de resolver problemas como los que se muestran a continuación. Use la aplicación gratuita Tarjetas de vocabulario matemático como ayuda adicional: mathlearningcenter.org/apps



PROBLEMA	COMENTARIOS
<p>4×2</p> <p>$4 + 4 = 8$ $4 \times 2 = 8$</p> <p>8×2</p> <p>$8 + 8 = 16$ $8 \times 2 = 16$</p>	<p>Los estudiantes usan la recta numérica para modelar la multiplicación. En este ejemplo, ven que 8×2 es dos veces 4×2. La recta numérica muestra la multiplicación como una suma repetida o saltos de igual tamaño. Ayuda a los estudiantes a ver las relaciones entre las operaciones de multiplicación y a comprender que esas relaciones generan la fluidez de cálculo.</p>
<p>$4 \times 11 = 44$</p> <p>Matriz cerrada</p> <p>Piezas lineales y Piezas de área de base diez</p> <p>Matriz abierta</p>	<p>Otro modelo importante para la multiplicación es la matriz. En este modelo, los lados son los números que se van a multiplicar y el área (el número de cuadrados) es el producto. En este ejemplo, estamos multiplicando 4 y 11 y el producto es 44. La matriz representa la relación entre estos números. También se puede usar para mostrar una variedad de estrategias para la multiplicación. Por ejemplo, los estudiantes también pueden mostrar cómo resolver 4×11 de esta manera:</p> <div style="text-align: center;"> </div> <p>$4 \times 11 = (2 \times 2 \times 11) = 2 \times (2 \times 11) = 2 \times 22 = 44$</p>

Bridges in Mathematics

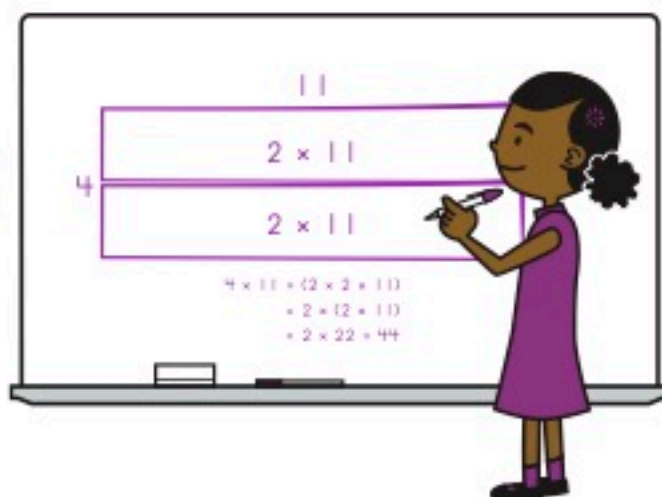
Grade 4 Unit 1

Multiplicative Thinking

In this unit your child will:

- Fluently multiply and divide within 100
- Apply properties of operations as strategies to multiply and divide
- Use multiplication and division within 100 to solve story problems in situations involving equal groups, arrays, and measurement quantities
- Find the area of a rectangle

Your child will learn and practice these skills by solving problems like those shown below. Use the free Math Vocabulary Cards app for additional support: mathlearningcenter.org/apps



PROBLEM	COMMENTS
<p>4×2</p> <p>$4 + 4 = 8$ $4 \times 2 = 8$</p> <p>8×2</p> <p>$8 + 8 = 16$ $8 \times 2 = 16$</p>	<p>Students use the number line to model multiplication. In this example, they see that 8×2 is twice as much as 4×2. The number line shows multiplication as repeated addition or jumps of equal sizes. It helps students see the relationships among multiplication facts, and understanding those relationships builds computational fluency.</p>
<p>$4 \times 11 = 44$</p> <p>11</p> <p>4 Closed Array</p> <p>11</p> <p>4 Linear Pieces and Base Ten Area Pieces</p> <p>11</p> <p>4 Open Array $4 \times 10 = 40$ $4 \times 1 = 4$</p>	<p>Another important model for multiplication is the array. In this model, the sides are the numbers being multiplied and the area (the number of squares) is the product. In this example, we are multiplying 4 and 11, and the product is 44. The array shows the relationships among these numbers. It can also be used to show a variety of strategies for multiplying. For example, students can also show how to solve 4×11 in this way:</p> <p>11</p> <p>4 2×11 2×11</p> <p>$4 \times 11 = (2 \times 2 \times 11) = 2 \times (2 \times 11) = 2 \times 22 = 44$</p>

Bridges in Mathematics

Grado 5 Unidad 1

Expresiones, ecuaciones y volumen

En esta unidad su hijo:

- Resolverá problemas de texto de varios pasos que involucran multiplicación y división con residuos
- Multiplicará y dividirá con números de varios dígitos
- Demostrará una comprensión de volumen usando multiplicación
- Encontrará todos los pares de factores para números enteros entre 1 y 100

Su hijo aprenderá y practicará estas habilidades por medio de resolver problemas como los que se muestran a continuación. Use la aplicación gratuita Tarjetas de vocabulario matemático como ayuda adicional: mathlearningcenter.org/apps



PROBLEMA	COMENTARIOS
<p>Diagrama de un prisma rectangular formado por cubos. Las dimensiones son 4 unidades de ancho, 2 unidades de alto y 3 unidades de profundidad.</p>	<p>Los estudiantes pueden multiplicar las tres dimensiones para encontrar el volumen: $4 \times 3 \times 2 = 24$. Muchas de las actividades en esta unidad motivan a los estudiantes a ver capas de cubos iguales. En este ejemplo, pueden ver 2 capas (la altura) con 12 cubos en cada capa.</p>
<p>Los posters muestran varias estrategias de multiplicación:</p> <ul style="list-style-type: none"> Estrategias de multiplicación: <ul style="list-style-type: none"> Productos parciales: $19 \times 99 = 19 \times (90 + 9) = 19 \times 90 + 19 \times 9 = 1,710 + 171 = 1,881$ De más: $19 \times 100 = 1,900$; $1,900 - 19 = 1,881$ Más estrategias de multiplicación: <ul style="list-style-type: none"> Duplicar y dividir a la mitad: $25 \times 36 = (25 \times 2) \times (36 \div 2) = 50 \times 18 = (50 \times 2) \times (18 \div 2) = 100 \times 9 = 900$ Cinco es la mitad de diez: $19 \times 36 = 19 \times (2 \times 18) = (19 \times 2) \times 18 = 38 \times 18 = 38 \times (2 \times 9) = (38 \times 2) \times 9 = 76 \times 9 = 684$ 	<p>Las estrategias de multiplicación de varios dígitos que se enfatizaron en la Unidad 1 son: productos parciales, la estrategia de más, la estrategia de 5 es la mitad de 10 y la estrategia de duplicar y dividir a la mitad. Estas estrategias se desarrollaron en cuarto grado y se amplían y refinan en esta unidad. Los estudiantes trabajan juntos para resumir estas estrategias y representarlas usando matrices, tablas de razones y ecuaciones, desarrollando carteles o "tablas de anclaje" para referencia futura.</p>

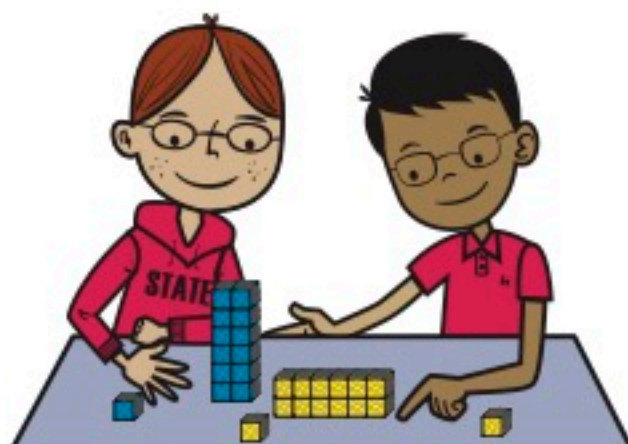
Bridges in Mathematics

Grade 5 Unit 1

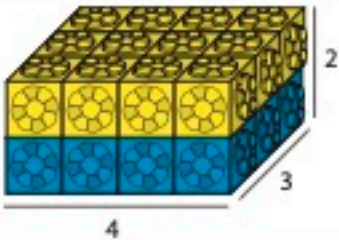
Expressions, Equations & Volume

In this unit your child will:

- Solve multi-step story problems involving multiplication and division with remainders
- Multiply and divide with multi-digit numbers
- Demonstrate an understanding of volume using multiplication
- Find all factor pairs for whole numbers between 1 and 100



Your child will learn and practice these skills by solving problems like those shown below. Use the free Math Vocabulary Cards app for additional support: mathlearningcenter.org/apps

PROBLEM	COMMENTS																										
	Students can multiply all three dimensions to find the volume: $4 \times 3 \times 2 = 24$. Many of the activities in this unit encourage students to see equal layers of cubes. In this example, they can see 2 layers (the height) with 12 cubes in each layer.																										
<div><div><h3>Multiplication Strategies</h3><p>19×99</p><p>Partial Products</p><table><tr><td>1</td><td>10</td><td>9</td><td>90</td><td>99</td></tr><tr><td>19</td><td>190</td><td>171</td><td>1,710</td><td>1,881</td></tr></table><p>$19 \times 10 = 190 + 190$ $= 171 + 1,710$ $= 1,881$</p><p>Over</p><table><tr><td>1</td><td>100</td><td>99</td></tr><tr><td>19</td><td>1,900</td><td>1,881</td></tr></table><p>$1100 = 190 + 11 \times 19$ $= 1,900 - 19 = 1,881$</p><p>$19 \times 1,900 = 19 \times 1,881$</p></div><div><h3>More Multiplication Strategies</h3><p>25×36</p><p>Doubling and Halving</p><p>$25 \times 36 = (25 \div 2) \times (36 \times 2)$ $= 12.5 \times 72$ $= (12.5 \times 2) \times (72 \div 2)$ $= 25 \times 36$ $= 900$</p><p>Five Is Half of Ten</p><table><tr><td>1</td><td>36</td></tr><tr><td>10</td><td>360</td></tr><tr><td>5</td><td>180</td></tr><tr><td>20</td><td>720</td></tr><tr><td>25</td><td>900</td></tr></table></div></div>	1	10	9	90	99	19	190	171	1,710	1,881	1	100	99	19	1,900	1,881	1	36	10	360	5	180	20	720	25	900	The multi-digit multiplication strategies emphasized in Unit 1 are: partial products, the over strategy, the 5 is half of 10 strategy, and the doubling and halving strategy. These strategies were developed in fourth grade and are extended and refined over the course of this unit. Students work together to summarize these strategies and represent them using arrays, ratio tables, and equations, developing posters or "anchor charts" for future reference.
1	10	9	90	99																							
19	190	171	1,710	1,881																							
1	100	99																									
19	1,900	1,881																									
1	36																										
10	360																										
5	180																										
20	720																										
25	900																										