

Learning Lessons for *Day 6 -10* for ^{7th} RTI

Directions: Please complete the following work below for each subject. Your teachers will collect this packet when we return to school.

Student Name _____ FOR Week of March 30th

Reading (5th - 8th Grade)

- Read for 20 minutes each day (*Parent Initials* _____)
 - Practice our strategies in class for clarifying words and finding the main idea. Write a summary of what you've read.

Choose an article or read a book. More articles available on Ms. Thrasher's Reading RTI Google Classroom

Math (All students have also been invited to their Math RTI Google Classroom and these instructions and links will be provided there as well. If you do not have access to the internet math pages with similar skills practice are attached here.)

5th

- Practice your multiplication facts for 10 minutes using the website. Check tables 1 - 12 and set it for 5 minutes. Complete this twice for your 10 minutes and try to beat your score the second time around. <https://www.mathmammoth.com/practice/multiplication> (*Parent Initials* _____)
- Practice your division with remainders using the website. Check all and set it for 5 minutes. Complete this twice for your 10 minutes and try to beat your score the second time around. <https://www.mathmammoth.com/practice/division-remainder> (*Parent Initials* _____)

6th

- Practice your multiplication with zeros for 10 minutes using the website. Set it for 5 minutes. Complete this twice for your 10 minutes and try to beat your score the second time around. <https://www.mathmammoth.com/practice/multiply-with-zeros> (*Parent Initials* _____)
- Practice multiplying fractions and mixed numbers for 10 minutes using the website. Check the use only proper fractions box, fraction by whole number box, fraction by fraction box, mixed number by whole number box, mixed number by fraction box, and the mixed number by mixed number box. Set it for 5 minutes. Complete this twice for your 10 minutes and try to get more correct the second time around. <https://www.mathmammoth.com/practice/multiply-fractions> (*Parent Initials* _____)

7th

- Practice multiplying fractions and mixed numbers for 10 minutes using the website. Check the use only proper fractions box, fraction by whole number box, fraction by fraction box, mixed number by whole number box, mixed number by fraction box, and the mixed number by mixed number box. Set it for 5 minutes. Complete this twice for your 10 minutes and try to get more correct the second time around. <https://www.mathmammoth.com/practice/multiply-fractions> (Parent Initials _____)
- Practice multiplying integers by playing the game for 10 minutes using the website. <https://www.arcademics.com/games/integer-warp> (Parent Initials _____)

8th

- Practice multiplying integers by playing the game for 10 minutes using the website. <https://www.arcademics.com/games/integer-warp> (Parent Initials _____)
- Practice evaluating exponents for 10 minutes using the website. For the mode select both and then set it for 5 minutes. Complete this twice for your 10 minutes and try to get more correct the second time around. <https://www.mathmammoth.com/practice/exponents> (Parent Initials _____)

If you have questions, please email your teacher.

Thank you!

Mrs. Harrison dharrison@mcusd1.net

Ms. Thrasher lthrasher@mcusd1.net

Name: _____ Date: _____

Fractions Worksheet

1 a. $\frac{3}{4} \times 1\frac{1}{3} =$

1 b. $2\frac{8}{9} \times \frac{3}{4} =$

2 a. $5\frac{2}{8} \times \frac{4}{5} =$

2 b. $1\frac{6}{9} \times \frac{1}{5} =$

3 a. $\frac{1}{5} \times 2\frac{8}{10} =$

3 b. $\frac{3}{4} \times 4\frac{1}{9} =$

Name: _____ Date: _____

Fractions Worksheet

1 a. $2\frac{1}{5} \times 5\frac{5}{8} =$

1 b. $4\frac{6}{8} \times 6\frac{1}{3} =$

2 a. $5\frac{2}{3} \times 4\frac{2}{4} =$

2 b. $5\frac{7}{8} \times 2\frac{3}{4} =$

Name : _____

Score : _____

Teacher : _____

Date : _____

1) $(+3) \times (-7) =$

2) $(-6) - (+5) =$

3) $(+9) + (+4) =$

4) $(+2) + (+7) =$

5) $(+4) - (+8) =$

6) $(+9) \times (+2) =$

7) $(+4) + (-9) =$

8) $(-5) - (+5) =$

9) $(-10) \div (+2) =$

10) $(-5) + (+7) =$

11) $(+7) - (+8) =$

12) $(+6) \div (+3) =$



STATISTICS

More Zzz's, Please!

→ **Prudman year was tough for Sam Prudman.** Classes at his Seattle high school began at 7:50 a.m. But Sam and his classmates felt tired during first period. "People were grumpy and not super focused," Sam says.

That changed in the fall of 2016, when Seattle officials postponed start times for public middle and high schools. They did it based on growing evidence that near teens don't get enough sleep. Sam's high school starts at 8:55 a.m. "That extra hour helped me a lot," says Sam, who graduated in June.

Sleep is crucial for both mental and physical health, says Horacio de la Iglesia, a neuroscientist at the University of Washington. When sleeping, our brains process information and our bodies make repairs for the next day. But unlike young kids or adults, most teens don't feel sleepy until around 11 p.m. That means it's hard for them to get the recommended 8 to 10 hours of sleep if they have to wake up super early for school.

De la Iglesia wanted to know if the later start time helped students sleep more. He asked students like Sam to wear activity wristbands that tracked when they slept and woke up. The results were striking: Students got an average of 31 minutes more sleep per night after the time change. Their grades and attendance also improved.

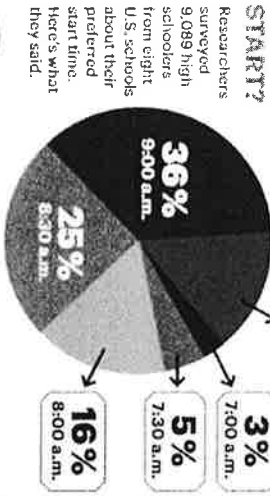
De la Iglesia hopes his work will help convince more schools to start later. "We can't change students' biology, so we might as well change their schedule," he says.

—*Akara Chandrasekaran*

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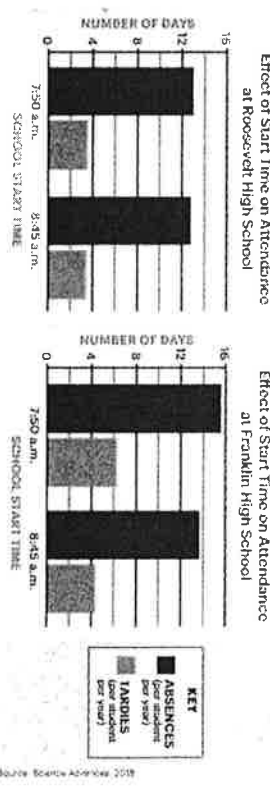


WHAT TIME SHOULD SCHOOL START?



Source: University of Michigan Center for Applied Research and Educational Improvement, 2014

SLEEPING IN SEATTLE



Source: Seattle Academics, 2016

POKER PICK
Answer the following questions using the information in the charts and graphs above.

- How much daily sleep do schoolchildren need?
 Ⓐ 7-9 hours Ⓑ 9-12 hours
 Ⓒ 8-10 hours Ⓓ 10-13 hours
- About how many days on average were students tardy at Franklin High School with a 7:50 a.m. start time?
 Ⓐ 3 Ⓑ 13
 Ⓒ 6 Ⓓ 15
- What percent of high schoolers surveyed said they prefer a school start time of 8:30 a.m. or later?
 Ⓐ 16% Ⓑ 76%
 Ⓒ 25% Ⓓ 92%
- Which age group needs 8 hours of sleep at minimum?
 Ⓐ toddlers Ⓑ adults
 Ⓒ preschoolers Ⓓ teenagers
- What's the minimum fraction of a day—in simplest form—that infants should be asleep?
 Ⓐ $\frac{1}{2}$ Ⓑ $\frac{3}{4}$
 Ⓒ $\frac{1}{2}$ Ⓓ $\frac{7}{12}$
- On average, about how many more days were Roosevelt High School students absent than tardy with a start time of 8:45 a.m.?
 Ⓐ 5 Ⓑ 10
 Ⓒ 7 Ⓓ 13
- How many high schoolers surveyed preferred a school start time of 9:00 a.m. (rounded to the nearest whole number)?

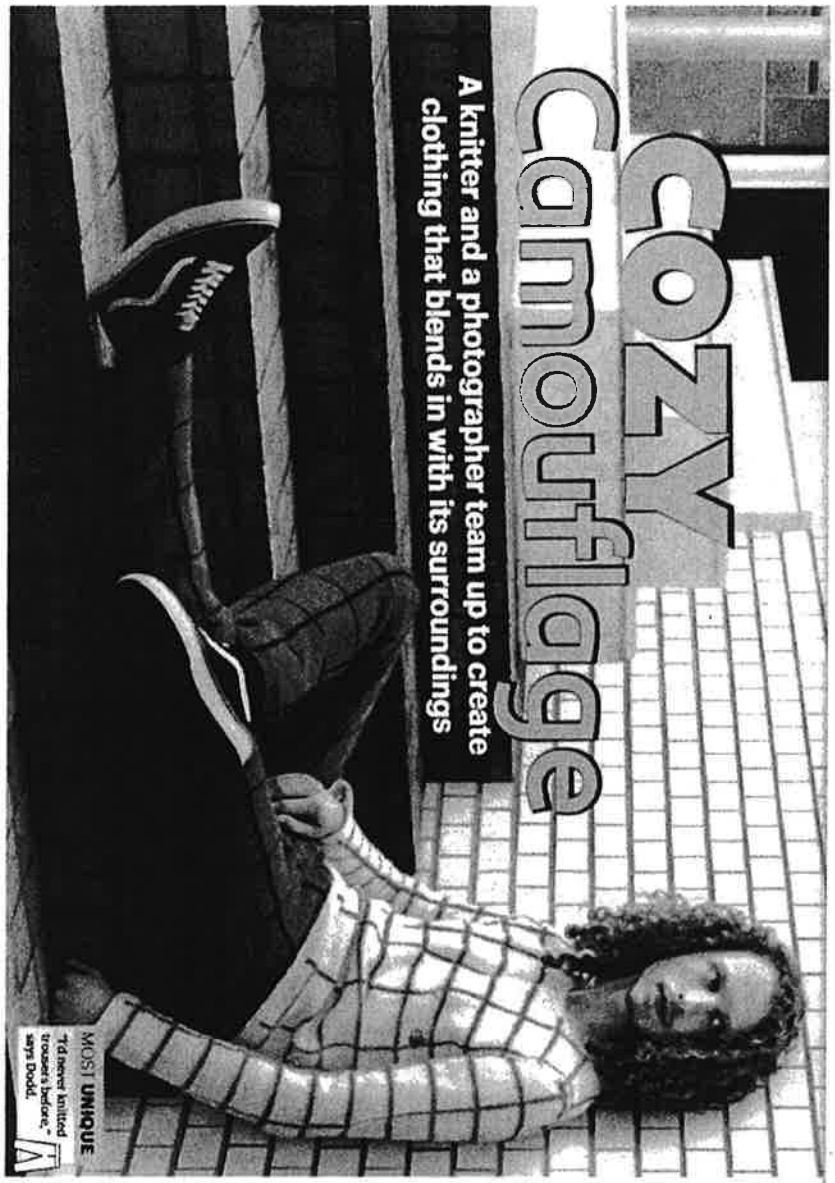
- What is the range in hours of sleep needed by a teenager for 1 year?

- What is one conclusion you can draw about the effect of school start times on attendance in these two Seattle high schools?

- Roll your class on what time they think school should start. Then create a circle graph on a separate sheet of paper to represent the data.

COZY Camouflage

A knitter and a photographer team up to create clothing that blends in with its surroundings



Don't miss our first creation to stand out. Best News Dood!



Beginning, Dood and Ford worked with street art photographer Joseph Ford's assistance. They decided to team up: Ford would take the pictures, and Dood would knit the clothing to match the background. Then they would take photographs of models wearing the clothes at the same site as the original image.

They began looking for interesting places clothing could blend into, like

she took a street look at the field

geometric pattern covering the soles of her shoes she notices every day and decided it would make a perfect knitted sweater.

"It was so obvious to me that it would look good," she says.

The pair inspired another knitter photographer Joseph Ford's assistance. They decided to team up: Ford would

take the pictures, and Dood would knit the clothing to match the background.

Then they would take photographs of models wearing the clothes at the same site as the original image.

Ford began looking for interesting places clothing could blend into, like

a sweater knit of a piece of street art.

When he'd find a potential background, he would snap a picture and pass it on to Dood to see what she thought.

Together, Dood and Ford came up with nine different camouflage creations for their first batch, but they're both still on the lookout for fun new places to blend into.

MADE WITH MATH

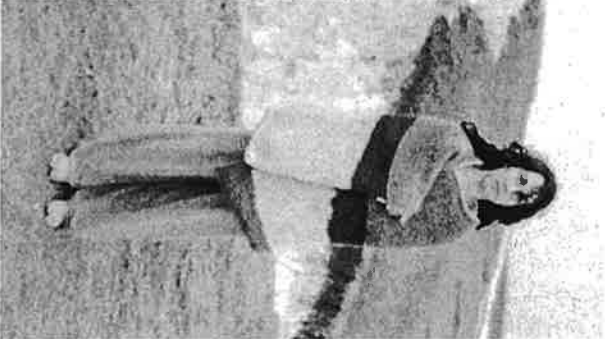
Once they decide on a place, Dood knits out her knit. She carefully measures the area each color takes up. Since each pattern must take up the same area as the background it blends

MOST UNIQUE
To create knitted sweater jacket, says Dood.

MOST COLLABORATIVE
Dood and Ford worked with street artist Joseph Ford to help blending into his own art.

MOST SCENIC
Matching a knit blanket to a cliff edge was surprisingly easy!

MOST DIFFICULT
This required 12 different balls of yarn at once.





FINDING PROPORTIONS

PLAY A GAME

A proportion is an equation that states that two ratios are equivalent. Mina Dodd uses proportions to plan out how many stitches wide and rows long she needs to knit to make her custom creations.

SCENARIO: Mina Dodd wants to make a scarf that is 60 inches long. To make 4 inches in length, it takes 11 rows of knitting. How many rows will she need to knit to make the scarf 60 inches long?

Step 1 Write the relationship between rows and inches as a ratio.

$$\frac{11 \text{ rows}}{4 \text{ inches}}$$

Step 2 Set up a proportion using the variable L to represent the total length of the scarf, which is the unknown measurement.

$$\frac{L}{60 \text{ in.}} = \frac{11 \text{ rows}}{4 \text{ in.}}$$

Step 3 Multiply both sides by 60 in. to isolate the variable.

$$L = 60 \times \frac{11 \text{ rows}}{4} = 165 \text{ rows}$$

→ So to make a scarf that is 60 inches long, Dodd would need to knit 165 rows of stitches.

many stitches across and rows tall is each square?

6 Knitters use the term **gauge**, which is a unit rate that tells them how many stitches there should be per inch of knitting. This helps a knitter make sure their finished project will fit as planned. If Dodd makes a sweater that is 32 inches and 160 stitches wide, what is the sweater's gauge?

into these measurements become her pattern. A knitting pattern is a list of instructions on how to make a specific item of clothing or object.

The project—and knitting in general—showed Dodd just how much craft gives her her favorite hobby. “I was one of those students who felt that I was on good enough,” Dodd says. “But I use it all the time now quite instinctively in my designs.”

The bus seat sweater is a perfect example (upper right). To re-create the seat as a sweater, Dodd measured each part of the seat’s pattern and took a photo for reference. She carefully found the dimensions of a circle on the seat’s design. She also counted how many rows and columns of stitches were on each seat. Dodd then used grid paper to design the knitting pattern.

Each square represented a single stitch, or loop of yarn around a knitting needle. The average sweater is made of about 75,000 stitches, so that meant a lot of grid squares.

And that was just the planning! It took some trial and error before Dodd was happy with how her pattern looked when knitted. “My first attempt didn’t look quite right, because the circles looked more like squares,” Dodd says. She changed the order of the stitches at each circle’s “corner” in the background color. “Instead of 2×2 ,” she says,

BLENDING IN Locations with large areas of one color, like the car street art (pictured on page 9), were straightforward to make. But locations with a lot of colors and

shapes were much more complicated. One of the trickiest was a car sign made to blend in with a life-size sculpture of a car.

“Although it looks very geometric, there are no repeats in that pattern at all,” Dodd says. “I literally drew and colored in the whole pattern on about six pages of graph paper. I had stuck together with tape and worked from a picture on my phone.”

(Other designs were easy to knit, but difficult to photograph because of who—or what—was wearing them. A simple tube of hot pink yarn was the fastest knit. But it ended up being the hardest to photograph because a rat modelled it. “Buddy the hat was lovely,” says Dodd. “But unfortunately he just didn’t like wearing a sweater.”

figuring out how to re-create real-world patterns in clothing was a fun challenge for Dodd. “The ideas and then the design are the exciting, sparkly stage of the process that keeps the creative part of my brain happy,” Dodd says. “I start from the standpoint that anything is possible. I just have to arrange to work it out.”

—Jennifer Hecker

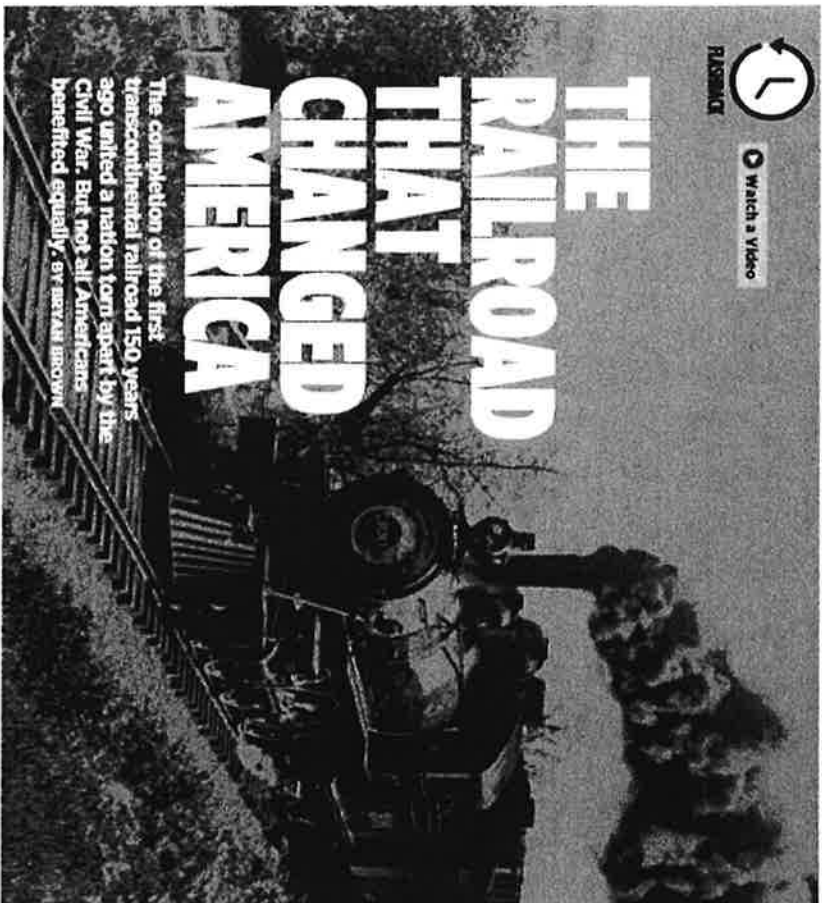




Watch a Video

THE RAILROAD THAT CHANGED AMERICA

The completion of the first transcontinental railroad 150 years ago united a nation torn apart by the Civil War. But not all Americans benefited equally, or even moved



As you read, think about what impact do trains have on the U.S.?

It's May 10, 1869, and a spirited crowd has gathered in isolated Promontory Summit, deep in Utah Territory, to mark history. Little more than a collection of tents and makeshift workers' shacks, it's an unlikely spot from which to witness the transfiguration of the United States. Yet thousands of people have gathered here to do just that. All eyes are on Leland Stanford, president of the Central Pacific Railroad, as he raises a hammer to tap a golden spike into the track. Cheers erupt all around and railroad engineers blast their whistles. Men give speeches and pose open bottles of champagne.

Then a telegraph operator types out a single word: "DONE." In an instant, people in New York, Chicago, and other cities receive the news and celebrate. Cannons blast, bells ring out. After years of planning and work, America's first transcontinental railroad is complete. From coast to coast, the entire country is now connected by rail.

Moving West

In the 1850s, the U.S. government began encouraging Americans to head west to claim some of the country's vast open areas. Pioneers were lured with the promise of owning their own land. But the trip could take months—if they survived it at all.

Horse-drawn wagons were constantly at risk of breaking down in parched deserts, on barren plains, or in treacherous mountain passes. "Nothing but actual experience will give one an idea of the . . . exhaustive energy, the thrush of hope, the depths of despair, through which we lived," one pioneer wrote.

Trains could be quicker and safer. At the time, the eastern U.S. was connected by about 5,000 miles of railroad tracks. Trains had transformed the economy there by allowing goods and people to move rapidly. Building a railroad to California could bring the country, and its prosperity, west.

Congress gave the job to two companies. In 1853, the Central Pacific Railroad began laying tracks in Sacramento, California, working eastward. A year later, the Union Pacific Railroad began in Omaha, Nebraska, and headed west.

Railroad lines already reached (Omaha from the East Coast.) By researching the companies with money and land for each

turned the project into a real competition. In California, Congress

turned the project into a real competition. In California, Congress

turned the project into a real competition. In California, Congress

YOU MIGHT NEED TO KNOW...

THE CALIFORNIA GOLD RUSH — In 1848, gold was discovered in California, bringing a flood of fortune seekers. Thousands were Chinese. Many of them—or their sons—would work on the Central Pacific Railroad.

THE FIRST POTATO Famine — Ireland's potato crop was destroyed by a disease in the 1840s, causing a great famine. Millions of Irish fled to the U.S. They became the backbone of the Union Pacific workforce.



A man pans for gold in a California river.

used picks and shovels to level the land. They chopped down trees. Then they laid out the heavy metal rails and hammered in spikes to hold them in place.

"Workers were out there from sunrise to sunset," says Lucas Hugel, a park ranger at Promontory Summit's Golden Spike National Historical Park. "It was heavy labor all done by hand."

Most of the people working on the Central Pacific line were Chinese. Many of them—or their parents—had arrived during the California Gold Rush, which began in 1848. Victims of racism, the Chinese were banned from almost all jobs. With limited options, up to 20,000 Chinese

people agreed to take the grueling, dangerous railroad work that few white Californians would accept. Even so, they were routinely paid less for longer hours than white workers.

As they progressed eastward, these laborers

were confronted with an incredible challenge: the Sierra Nevada mountains. The workers had to dig 15 tunnels through the peaks, most at high elevations and almost completely with hand tools. To loosen the rock, they would chisel holes into it, fill the holes with explosive black powder, then light a fuse and rush to take cover.

While blasting was fairly work, the Central Pacific crews were in even more danger from avalanches, which could strike in the mountains at any time. When the snow thawed after the especially hard winter of 1867, bodies of workers who'd been swept up in snowslides were found with their tools still in their hands.

Destroying a Way of Life

In the East, the workers of the Union Pacific were moving more quickly across the Nebraska plains. They included Civil War veterans, freed slaves, and many immigrants from Ireland, where the Irish potato famine had created millions of refugees. Their last was made harder by panding

parties from the Cheyenne, Sioux, and other Native American nations of the **Great Plains**, who saw their presence as a threat.

The Native people had good reason to be worried. The railroad cut through land where they'd lived and hunted buffalo for generations. Now, new towns of white settlers sprouted wherever the tracks went, destroying their way of life.

The U.S. government sent soldiers to fight back against the Native people. In 1867, General William Tecumseh Sherman met with members of the Great Plains nations, warning them of what was to come: "We will build iron roads, and you cannot stop the locomotive any more than you can stop the sun or the moon," he said.

The tribes continued to resist for a while, but they were eventually overpowered. "The white people have surrounded me and left me nothing but an island," Sioux leader Red Cloud would later say during a visit to Washington, D.C. "When we



RISKY JOBS
Thousands of Chinese workers built the Central Pacific Railroad.

first had this hard, we were strong. Now we are melting like snow on a hillside." Like Red Cloud, most Native Americans would soon be forced onto **reservations**.

A Nation Transformed

By early 1869, the Central Pacific and Union Pacific were only miles apart in Utah Territory. Finally, the companies settled on a location where their two lines would meet. Now the teams were in a race to reach Promontory Summit. In April, the Central Pacific construction chief led a Union

Pacific official that his men could lay 11 miles of track in a day. They did it, putting down 3,229 rails and 55,000 spikes in 12 hours!

But few of those workers were at the celebration at Promontory Summit on May 10. By then, most of the people who had actually built the transcontinental railroad had been let go. History notes very little about them. None of the Chinese workers' names were recorded by the Central Pacific—including those of the small crew left behind to join the last rail. "No white journalist at the ceremony was



You worked.

By age 10, many kids were already working in mines or factories on city streets, and especially on family farms. "I remember my father buying up 200 acres of land in 1860. It was a good investment of cash in wheat."



Your school was one room.

Especially in rural areas, students of all ages were taught in the same room. Everybody walked to get there. School supplies were cheap and in short.



You knew Civil War veterans.

Your neighbors, brothers, or father had fought. Some say that there weren't enough soldiers to fight in the war. Almost every family had lost someone to the conflict.



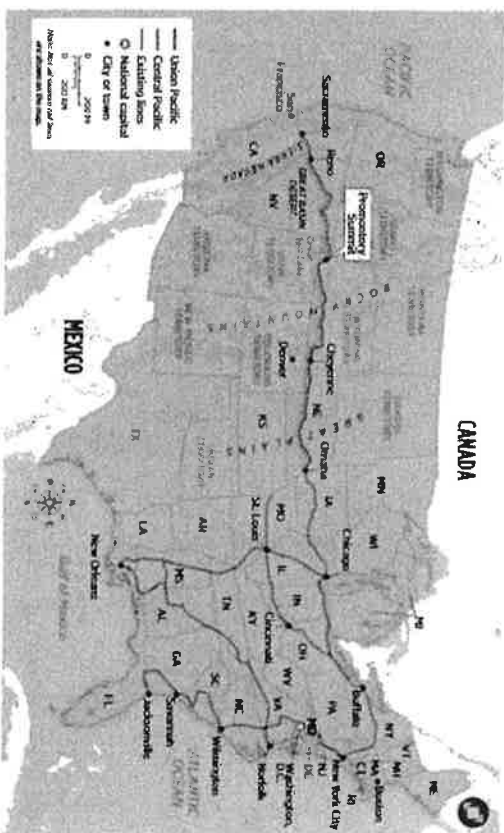
You played the Game of Life.

Introduced in 1860 by Milton Bradley, it was incredibly popular—especially among kids. Bradley's success launched a board game industry in the U.S.

If YOU were a Kid in 1869

The Transcontinental Railroad

Finished in 1869, it linked the eastern states' to newer settlements in the West.



Map Skills

- Promontory Summit was in which territory?
- That spot sits near what body of water?
- From which cities did the Union Pacific and Central Pacific lines begin?
- Through which mountains did the workers of the Central Pacific have to build?
- Which city lay along the route of the Union Pacific line in Wyoming Territory?
- Which mountains did the Union Pacific cross?
- Which three states existed west of Promontory Summit in 1869?
- Which territory in 1869 had not yet been divided into two present-day states?
- Which state was directly south of Indian Territory?
- How many miles separate Denver and Chicago?

Interested in reporting on their work," says historian Richard Chait, an adviser to the Museum of Chinese in America. Still, their efforts had a huge impact on the nation. Passengers could now travel from coast to coast in about a week. Immigration to the West surged. "The railroad also boosted the nation's economy. 'Trains began transporting raw

materials such as timber and silver from the West to factories in the East. The U.S. became richer, more powerful, and more united. Not all Americans benefited equally from the railroad, however. Native Americans in particular were pushed aside while a growing railman swallowed their lands. For better or worse, "the railroad transformed every part of the country that it touched," park ranger Hauge says. ♦

WRITE ABOUT IT!

How did the transcontinental railroad transform the nation? Why might "not all Americans have benefited equally"? Write two paragraphs explaining your answer, using evidence from the text.