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RAILWAY AT DALE CREEK BRIDGE, WYOMING

Sacramento, CA

Promontory Summit, Utah
Golden Spike Ceremony

Ohmaha, NE

THE CHEYENNE LEADER MAY, 1869

SAN FRANCISCO

Central AND Union PACIFIC RAIL ROAD LINE.

NEW YORK

1869 - May 10th. - 1869
GREAT ★ EVENT
RAIL ROAD FROM THE ATLANTIC TO THE PACIFIC GRAND OPENING

THE GREAT TRANS-CONTINENTAL ALL-RAIL ROUTE!

fastest way to go coast to coast - no more wagon trains!

1176 MILES FROM OMAHA TO SACRAMENTO

SHORTEST, QUICKEST, AND CHEAPEST ROUTE WEST

TRAIN CUTS DOWN TRAVEL TIME FROM 6 MONTHS TO ONE WEEK! RELAX AND ENJOY THE SCENERY!

BEST LINE FOR CHEYENNE, WYOMING

TRAIN
"DINING SALOON"
EAT IN STYLE WHILE TRAVELING THE TRACKS.
48 PEOPLE TO 1 CAR
MENU
Fried Salmon Steak 35c
Boiled Ox Tongue with Tomato Sauce 35c
Pickled Lam's Tongue 25c
Boston Clam Chowder 20c
Rhubarb Pie 10c
Backed Apple Dumplings 15c
Cocoa 15c
Beef Tea 10c

RAIL TICKETS
· Still FOR FIRST CLASS
· HEATED CAR
· COMFORTABLE BEDS
· $40 FOR THIRD CLASS TICKETS
· WOODEN BENCHES ·
ONLY A FEW DAYS OF TRAVEL TO YOUR DESTINATION

WORKERS WANTED
FOR SNOW REMOVAL ON TRACKS. GET PAID $30 A MONTH IN GOLD!
7 DAYS A WEEK.

REED & BARTON, Fine ELECTRO-PLATED Ware.

·BUSINESS MEN·
TAKE ADVANDAGE OF NEWLY OPENED ASIAN MARKETS VIA CALIFORNIA
-SETTLERS!-
IT'S YOUR DESTINY TO EXPAND WEST. WEST COAST FARMING AND BUSINESS IS BOOMING!

LYMAN & TUCKER, JOBBING AND RET

HAWTHORNE

SILVER FOX

WE BELIE

FANCY

$47

mored luggage
Since 1930
CALIF.
HOUSE CLEANING
REED & BARTON, Fine ELECTRO-PLATED Ware.
arriages,
tertainment
ORIENT SAFETY LAMP.
AGENTS Make $10 a DAY
TURKISH TOWELS

KID'S FACT
TRAINS TRAVELED
ALMOST 45 MPH IN 1869

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San Francisco, CA
July 12
6:30 AM

The first US Air Mail service began on May 15, 1918 using converted US Army Air Service Curtis JN-4HM "Jenny" biplanes flown by Army pilots. After four months of the mail being flown by the Army, all flight operations were taken over by the US Post Office Department's Mail Aerial Mail Service on August 12, 1918.

AIR MAIL

New York, NY
July 13
4:30 AM

2,665 Miles

VIA AIR MAIL

FIRST FLIGHT
UNDER CONTRACT
CHICAGO - SAN FRANCISCO
US AIR MAIL

The planes flown when air mail service began did not have navigational equipment, thus pilots had to stop flying at night and wait until daylight to continue their journey. **The original coast to coast air mail route took 70 hours.** Soon 50 foot tall towers equipped with bright beacons were built in 13 locations across the country to direct pilots safely through the night. With the ability to navigate day and night, airmail was shipped coast to coast in **34 hours**, **cutting the delivery time in half.**

Beacon #38

Pilots were always on the lookout for the next wayfinding point, a tower with a beacon and an arrow pointing them in the direction they needed to go. **Air Mail beacons were placed every ten miles**, so when visibility was clear, a pilot could see the next tower from the tower they were at.

Outside of Cheyenne lies U.S. Air Mail Beacon #38. Most of the towers were disassembled during World War II because steel was in short supply, but **the concrete arrows still exist in many locations today**, including Beacon #38.

2nd Lt. James Clark Edgerton (1896-1973) Edgerton flew the first day of scheduled Air Mail service in the United States on **May 15, 1918.** Over the next five months as an Army Air Mail pilot Edgerton flew **52 trips** over a total of **7,155 miles**, spending **107 hours in the air** and making only one forced landing.

During the beginning of the Air Mail service, planes had no instruments, radios, or other navigational equipment, so pilots had to be skilled and courageous to make the long flights necessary. **The cockpit was open air, so pilots had to dress in insulated flight uniforms to stay warm in the air.** Flying for many hours would have been uncomfortable, but pilots were willing to endure the discomfort to deliver the mail.

Kids Fact

Cheyenne was an important location along the US Air Mail route, and was one of the original 13 stops on the first flight route from New York to California!

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Oregon City, Oregon

Oregon Country

Mexican Cession

Louisiana

United States

Independence, MO

THE OREGON TRAIL

1843 – 1870

GO WEST!

DESTINY!

OPPORTUNITY!

CALLING ALL EXPLORERS, MINERS, RANCHERS, AND BUSINESSMEN!

Do you want a fresh start in the fertile lands of the Oregon Country? Join fellow settlers on this incredible 2,170 mile journey from Independence, Missouri, through the Great Plains, over the Rocky Mountains in Wyoming, and across rivers to Oregon City.

In 5-7 short months, you could be there!

OREGON TRAIL SUPPLIES

- Food - The average trip consisted of:
  - 200 Pounds of Flour
  - 150 Pounds of Bacon
  - 10 Punds of Coffee
  - 20 Pounds of Sugar
  - 10 Pounds of Salt
- Parts and Tools: Repairs were often needed on the road for the wagon and equipment.
- Basic Kitchenware:
  - Cooking Kettle
  - Frying Pan
  - Coffee Pot
  - Tin Plates
  - Cups
  - Knives and Forks
- Luxury Items: Emigrants also often brought furniture, books, and personal belongings that eventually were discarded along the trail to lighten the weight of the wagon.

WHAT WILL YOU SEE ON THE TRAIL?

As you journey west you will travel through Native American land, and will likely trade goods with local indigenous people along the way. In the Great Plains, you will see vast herds of Bison, and travel from fort to fort in order to stay supplied for the long journey. While in Wyoming most wagon trains stop at Fort Laramie, a major resupply stop along the route. As you keep heading west you can stop and etch your name into Independence rock near Rawlins. You can be assured you are heading in the right direction if you pass by this major landmark along the Oregon Trail. As you and your wagon train make your way through Wyoming you will roll through the prairie, cross large rivers including the Green River, and travel over mountain passes, including South Pass and Thompson Pass.

KID'S FACT

The wagon typically used on the Oregon Trail was the Prairie Schooner, and it was 4 FEET WIDE, 11 FEET LONG, AND 10 FEET TALL! THE BACK WHEELS WERE TYPICALLY 50" TALL AND THE FRONT WHEELS WERE 44" TALL. Wagons were pulled by either 4-6 oxen, or 6-10 mules.

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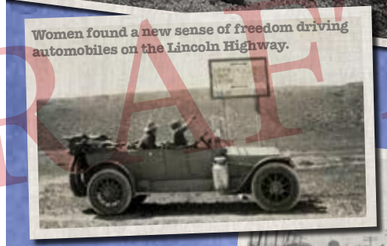
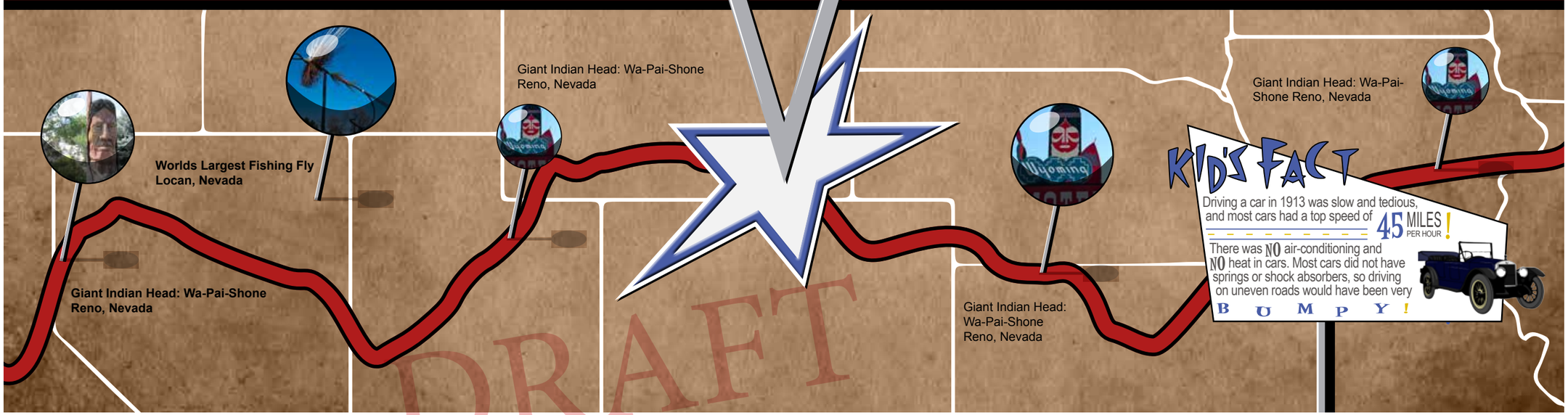


COAST TO COAST CHEYENNE

LINCOLN HIGHWAY

Prior to highways there were no developed roads for people to easily drive from town to town, and most of these dirt or gravel roads were impassable in wet weather. In 1912, planning for the Lincoln Highway began with the dream of a transcontinental highway across the U.S. The Lincoln Highway had a hardened dirt surface that stretched 3,389 miles from Times Square in New York City, all the way to Lincoln Park in San Francisco. Cheyenne was one of 700 cities the highway passed through. In 1913 the highway route was completed and it took travelers around 30 days to drive coast to coast.

The Federal Highway Act of 1921 designated money so that all highways could be paved, thus creating a safer and faster route of travel. This marked the end of the Lincoln Highway, which was replaced by Interstate 80, and only small remnants of the old highway exist today. In 1928, the Boy Scouts of America made one last effort to memorialize the Lincoln Highway by placing 2,400 concrete markers with an “L” and a medallion of President Abraham Lincoln. Restaurants, motels, and gas stations still carry Lincoln-related names, such as the Lincoln Theater in Cheyenne.



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ALL ABOARD!

How long did it take to build the first transcontinental railway?

Why was this railway important?

How many tunnels were built to finish the connecting tracks?

HOW FAST DID TRAINS TRAVEL IN 1869?

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FLY WITH THE U.S. AIRMAIL

- Were Pilots able to fly in the dark?
- Was it dangerous to fly mail across the country?
- How did pilots find their way from New York to California?

DID THE U.S. AIRMAIL *FLY OVER* CHEYENNE

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EXPLORE THE OREGON TRAIL

- Why did pioneers travel west on the Oregon Trail? What were they wanting to find?
- What did the pioneers bring with them on the journey?
- What was it like to travel in a wagon? Bumpy or soft?

HOW TALL IS A WAGON WHEEL?

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ROAD TRIP

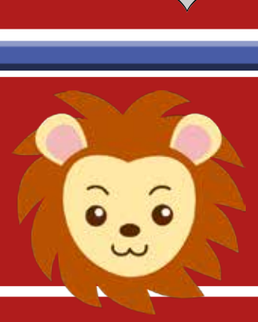
Was Cheyenne along the highway?

When was the Lincoln Highway built?

How long was the journey when the highway was built?

Where did the Lincoln Highway Begin and End?

The LINCOLN HIGHWAY
COAST TO COAST FROM TIMES SQUARE TO THE GOLDEN GATE



WHAT WERE CARS LIKE IN 1913?

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BIOLOGY

Study of life and living organisms

TRAVEL COAST to COAST!

What PLANTS **and** ANIMALS **Would you see on a trail from** NEW YORK **to** CALIFORNIA **?**

Text

Text

Text

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GEOLOGY

Study of the history and structure of the Earth

HOW DID TRAINS TRAVEL THROUGH MOUNTAINS?

IN TUNNELS!

Sierra Nevada Mountain Range

CALIFORNIA

Rock Type: Granite

GRANITE

Igneous rock formed by the cooling of lava from a volcano

From 1866-1869

19 Tunnels were built on the T.C. Railway. At the Sierra Nevada Summit tunnel, 1'-4' was blased out per day

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GEOGRAPHY

Study of the land, the features, and humans on Earth

WHAT REGIONS HAVE YOU VISITED IN WYOMING?

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SCALE

Compare sizes of objects

HOW TALL ARE:

Wagon wheels were hand crafted by a wheelwright

The largest wheel on the train that moves the train forward

The JN-4D had a 43foot 7 3/4inch Wingspan

The first Model T car wheels were wooden artillery wheels

Wagon Wheels

Train Engine Driving Wheels

Airplane Wings

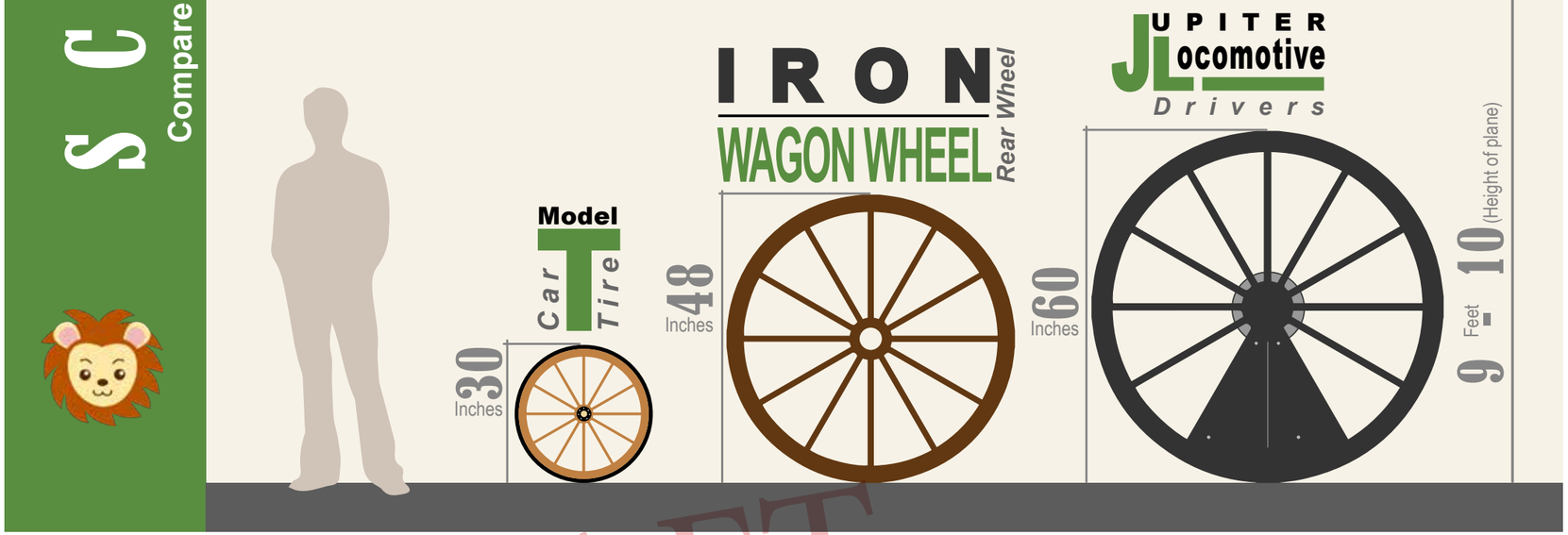
Car Wheels/Tires

The larger the wheel, the easier for the horses, oxen, and mules to pull the wagons

Driving wheels are connected to coupling rods that transfer power to all the wheels

The JN-4D plane could fly up to 6,500ft high

Steel welded-spoke wheels became available in 1926



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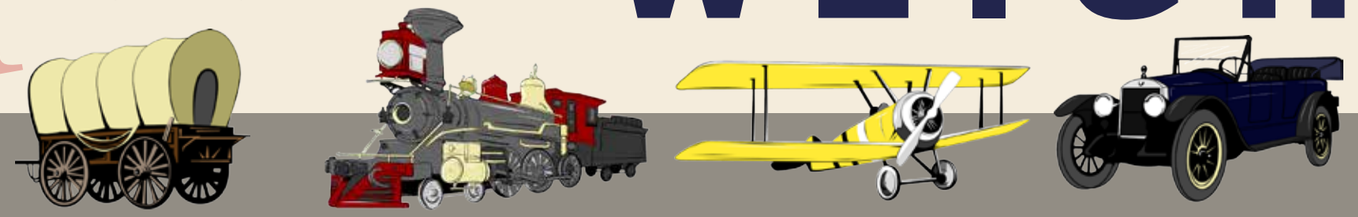
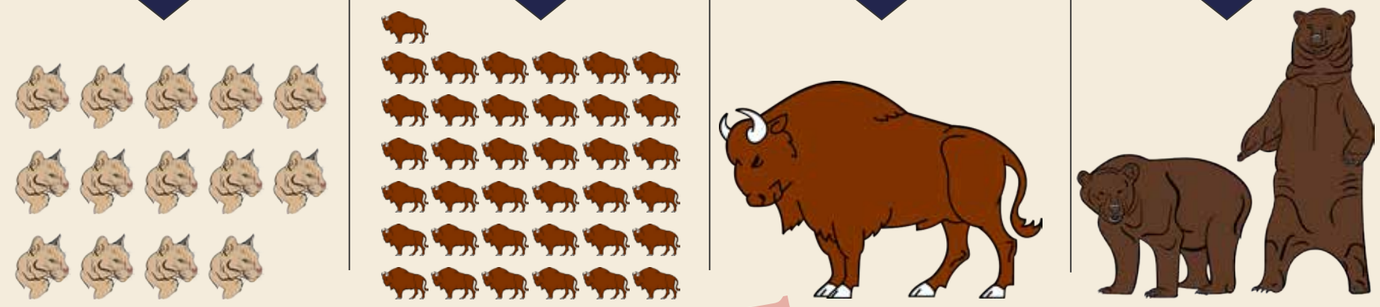
WEIGHT

"Heaviness" The downward force caused by gravity

HOW MUCH DOES A WAGON, TRAIN, AIRPLANE AND CAR WEIGH



2,500 lbs	**34** Tons (74,957 lbs)	**1,920** lbs	**1,200** lbs
Fully packed with supplies	Loaded with fuel and water	Max take off weight	Standard
Prairie Schooner	**Jupiter Steam Train**	**Curtiss JN-4 "Jenny"**	**Model T**
=14 Mountain Lions	=37 Bison	=1 Bison	=2 Grizzly Bears



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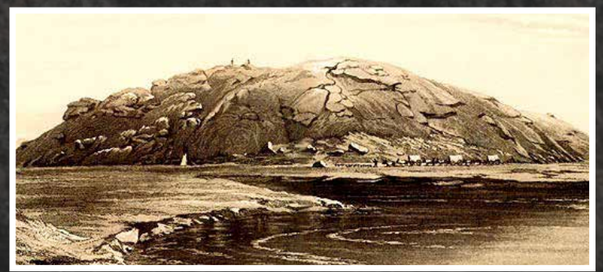
INDEPENDENCE ROCK

Independence Rock is a large, granite, monolith funnel along the historic Oregon Trail route. Immigrants traveling west would have used this massive feature in the landscape as a guide along the trail. If they passed this rock, they knew they were headed in the right direction. Many travelers would stop and etch their names into the rock, which are still visible today, over 150 years later!

Current Day Independence Rock



Historical Independence Rock

Signatures On Rock

Location Map

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REGISTER CLIFF

Register Cliff is a sandstone cliff featured as a major landmark along the Oregon Trail. Emigrants traveling west would sign their names into the cliff, and many can still be seen today. This prominent feature in the landscape allowed travelers to verify they were on the correct path as they moved across Wyoming.

Current Day Register Cliff

Standstone Rock with Signatures

Historic Signatures

Location Map

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ARE YOU UP FOR A MATH CHALLENGE?

The Oregon Trail

2,170 miles

START: Independence, Missouri
FINISH: Oregon City, Oregon

If you traveled for 8 hours every day and traveled 14 miles each day:

% How fast are you traveling?

% How long would it take to take to go from one end to the other?

Transcontinental Railway

1,776 miles

START: Omaha, Nebraska
FINISH: Sacramento, California

A Section of rail is 30 feet long and weights 560 pounds. How much does one foot of rail weight?

Workers were paid $30 a month in gold for working 7 days a week on the railway. If a worker worked for 8 years, how much did he make total?

A ticket in first class costs $111, while a ticken in coach cost $40. How much more would it cost for two people to travel in first class than in coach?

United States Airmail

3,000 miles

START: New York, New York
FINISH: San Francisco, California

X If a plane travels at 75 miles per hour for 3 hours, how many miles will the plane travel?

% If a plane travels 300 miles in 5 hours, how fast was the plane flying?

Lincoln Highway Road Trip

3,389 miles

START: Times Square, New York, New York
FINISH: Lincoln Park, San Francisco, California

If gas costs $0.12 a gallon and a Model T car has a 10 gallon gas tank, how much would it cost to fill up your Model T with gas?

If your Model T drives 18 miles on one gallon of gas, how many miles can you drive with a full tank of gas (10 gallons)?

How many times would you need to fill up your tank if you drove 360 miles?

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