

Name _____

Table One: Track Locations of the Grand National Races, 1970

City	State	Latitude	Longitude
Talladega	AL	33.45	86.10
Riverside	CA	33.93	117.40
Thompson	CT	41.95	71.85
Dover	DE	39.13	75.47
Daytona Beach	FL	29.18	81.05
Hampton (Atlanta)	GA	33.38	84.28
Macon	GA	33.02	85.07
Savannah	GA	32.13	81.20
Beltsville	MD	39.03	76.92
Brooklyn	MI	42.10	84.25
Charlotte	NC	35.22	80.93
Hickory	NC	35.75	81.38
North Wilkesboro	NC	36.15	81.13
Rockingham	NC	34.93	79.77
Raleigh	NC	35.81	78.66
Winston Salem	NC	36.13	80.12
Trenton	NJ	40.21	74.76
Malta	NY	42.96	73.78
Columbia	SC	33.96	81.11
Darlington	SC	34.30	79.87
Greenville	SC	34.90	82.21
Bristol	TN	36.48	82.40
Kingsport	TN	36.53	82.55
Maryville	TN	35.75	83.96
Nashville	TN	36.12	86.68
Hampton	VA	37.05	76.30
Martinsville	VA	36.68	79.87
Richmond	VA	37.50	77.33
South Boston	VA	36.70	77.33
Ona	WV	38.42	82.20
TOTAL			
AVERAGE			
MEAN CENTER 1970			
(DEGREES: MINUTES)			

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Martinsville	VA	36.68	79.87
Richmond	VA	37.50	77.33
South Boston	VA	36.70	77.33
Ona	WV	38.42	82.20
TOTAL		1088.85	2445.93
AVERAGE		36.29	81.53
MEAN CENTER 1970			
(DEGREES: MINUTES)		36 Deg 17 Min	81 Deg 32 Min

Name _____

Table One: Track Locations of the Grand National Races, 1970

City	State	Latitude	Longitude
Talladega	AL	33.45	86.10
Phoenix	AZ	33.43	112.02
Fontana	CA	34.10	117.45
Sonoma	CA	38.28	122.47
Dover	DE	39.13	75.47
Daytona Beach	FL	29.18	81.05
Homestead	FL	25.47	80.45
Hampton (Atlanta)	GA	33.38	84.28
Joliet	IL	41.53	88.12
Indianapolis	IN	39.73	86.28
Kansas City	KS	39.12	94.58
Brooklyn	MI	42.10	84.25
Concord	NC	35.22	80.93
Rockingham	NC	34.93	79.77
Loudon	NH	35.40	80.60
Las Vegas	NV	36.08	115.17
Watkins Glen	NY	42.37	76.87
Pocono	PA	41.05	70.08
Darlington	SC	34.30	79.87
Bristol	TN	36.48	82.40
Forth Worth	TX	32.83	97.05
Martinsville	VA	37.68	79.87
Richmond	VA	37.50	77.33
TOTAL			
AVERAGE			
MEAN CENTER -2004 (DEGREES: MINUTES			

Answer Key**Table Two: Track Locations of Nextel Cup Races, 2004**

City	State	Latitude	Longitude
Talladega	AL	33.45	86.10
Phoenix	AZ	33.43	112.02
Fontana	CA	34.10	117.45
Sonoma	CA	38.28	122.47
Dover	DE	39.13	75.47
Daytona Beach	FL	29.18	81.05
Homestead	FL	25.47	80.45
Hampton (Atlanta)	GA	33.38	84.28
Joliet	IL	41.53	88.12
Indianapolis	IN	39.73	86.28
Kansas City	KS	39.12	94.58
Brooklyn	MI	42.10	84.25
Concord	NC	35.22	80.93
Rockingham	NC	34.93	79.77
Loudon	NH	35.40	80.60
Las Vegas	NV	36.08	115.17
Watkins Glen	NY	42.37	76.87
Pocono	PA	41.05	70.08
Darlington	SC	34.30	79.87
Bristol	TN	36.48	82.40
Forth Worth	TX	32.83	97.05
Martinsville	VA	37.68	79.87
Richmond	VA	37.50	77.33
TOTAL		832.74	2032.50
AVERAGE		36.21	88.37
MEAN CENTER -2004 (DEGREES: MINUTES)		36 Deg 13 Min	86 Deg 22 Min

A Short History of Grand National/Nextel/Sprint Cup Races

The NASCAR Sprint Cup Series (often shortened to Sprint Cup or the Cup Series) is the top racing series of the National Association for Stock Car Auto Racing (NASCAR). The series is named for its current sponsor, the Sprint Corporation, and has been known by other names in the past.

It was originally known as the Strictly Stock Series (1949) and shortly became the Grand National Series (1950–1970). While leasing its naming rights to R. J. Reynolds Tobacco Company, it was known as the Winston Cup Series (1971–2003). A similar deal was made with NEXTEL in 2003, becoming the NEXTEL Cup Series (2004–2007) and it became the Sprint Cup after Sprint acquired NEXTEL in 2005. The name "Sprint" refers specifically to the subsidiary of Japanese telecommunications company SoftBank which is the entitlement sponsor; sprint car racing is a separate racing discipline.

The drivers' champion is determined by a point system where points are given according to finishing placement and laps led. The season is divided into two segments. After the first 26 races, 16 drivers, selected primarily on the basis of wins during the first 26 races, are seeded based on their total number of wins and compete in the last 10 races with the difference in points greatly minimized. This is called the Chase for the Championship.

The series holds strong roots in the Southeastern United States with half of its 36-race season in that region. The current schedule includes tracks from around the United States. Regular season races were previously held in Canada, and exhibition races were held in Japan and Australia. The Daytona 500, its most prestigious race, had a television audience in the U.S. of about 16 million viewers in 2009.

Sprint Cup Series cars are unique in automobile racing. The engines are powerful enough to reach speeds over 200 mph (320 km/h), but high weight – coupled with a (relatively) simple aerodynamic package – makes for poor handling. Their bodies and chassis are strictly regulated to ensure parity, and electronics are generally spartan in nature.

Source: http://en.wikipedia.org/wiki/Sprint_Cup_Series

2015 Sprint Cup Series Schedule of Cities

City	State
Talladega	AL
Phoenix	AZ
Fontana	CA
Sonoma	CA
Dover	DE
Daytona	FL
Homestead	FL
Hampton (Atlanta)	GA
Joliet	IL
Indianapolis	IN
Kansas City	KS
Sparta	KY
Brooklyn	MI
Concord	NC
Loudon	NH
Las Vegas	NV
Watkins Glen	NY
Pocono	PA
Darlington	SC
Bristol	TN
Fort Worth	TX
Martinsville	VA
Richmond	VA

Comparing the 2004 schedule to the 2015 schedule, Rockingham, North Carolina is no longer on the circuit. However Sparta, Kentucky has been added. Latitude for Sparta is 38.69° N. Longitude is 84.91° W. Would this subtraction of Rockingham and addition of Sparta make a huge difference in the calculations or the map. NO.

Once you have completed the activity answer the following questions.

1. Describe the average location of tracks hosting Nextel Cup/Grand National racing in 1970.

2. Describe the average location of tracks hosting Nextel Cup/ Grand National racing in 2004.

3. Examine the two data sheets. Which states gained the most races and which states lost the most?

4. Why do you think that racing expanded westward?

5. Where do you believe that the next set of tracks will be located and why?

Student Worksheets – Answer Key

Once you have completed the activity answer the following questions. Answers will vary. These are suggested answers only.

1. Describe the average location of tracks hosting Nextel Cup/Grand National racing in 1970.
Almost to the Atlantic Coast
2. Describe the average location of tracks hosting Nextel Cup/ Grand National racing in 2004.
Almost to the Mississippi River
3. Examine the two data sheets. Which states gained the most races and which states lost the most?
Gained 1 or more races: CA, FL, IL, IN, KS, NH, NV, PA, TX
Lost 1 or more races: CT, GA, MD, NC, NJ, SC, TN, VA, WV
If you add in the 2015 schedule, KY added a race and NC lost a race from 2004 list.
4. Why do you think that racing expanded westward?
More Americans were interested in the sport, not just East coast people
5. Where do you believe that the next set of tracks will be located and why?
Any reasonable answer

Test

Name _____

Tom loves racing his bicycle and would like to calculate the average distribution of four locations of his next races. He will be racing at the following locations.

City	Latitude	Longitude
Davis	30.35	86.10
Homes	34.10	112.25
Cotton	29.50	100.20
Martin	25.55	94.35

1. What is the mean center of the four locations? Round your calculation to the nearest hundredths.

- A. 29.88 degrees Latitude, 97.23 degrees Longitude
- B. 30.01 degrees Latitude, 98.23 degrees Longitude
- C. 29.80 degrees Latitude, 98.20 degrees Longitude
- D. 29.88 degrees Latitude, 98.23 degrees Longitude

2. Which of the four towns is **closest** to the mean center of the distribution of the racing centers.

- A. Davis
- B. Homes
- C. Cotton
- D. Martin

Answer Key to Test Questions

1. D

2. C