

Taking the Train—Travel Math

Train travel was one of the most widely used modes of transportation for migrants traveling from the South to the North. Migrants might have used a train map to plan their trip. Using the map, distance table, and key provided to you, solve the following problems.



 KEY	
ATLANTIC COAST LINE.....	
ATCHISON, TOPEKA & SANTA FE.....	
BALTIMORE & OHIO.....	
BOSTON & MAINE.....	
CHICAGO, BURLINGTON & QUINCY.....	
CHICAGO, MILWAUKEE & ST. PAUL.....	
CHICAGO & NORTH WESTERN.....	
DELAWARE, LACKAWANNA & WESTERN ERIE.....	
FLORIDA EAST COAST.....	
GREAT NORTHERN.....	
ILLINOIS CENTRAL.....	
LOS ANGELES & SALT LAKE.....	
LOUISVILLE & NASHVILLE.....	
LEHIGH VALLEY.....	
MISSOURI, KANSAS & TEXAS.....	
MISSOURI PACIFIC.....	
NEW YORK CENTRAL.....	
NEW YORK, NEW HAVEN & HARTFORD.....	
NORTHERN PACIFIC.....	
PENNSYLVANIA.....	
SOUTHERN.....	
ST. LOUIS & SAN FRANCISCO.....	
SOUTHERN PACIFIC.....	
UNION PACIFIC.....	
WABASH.....	
BARGE CANAL.....	

- Using the key, track the route of a migrant from New Orleans to Chicago. Did transportation between these cities require that passengers use more than one railway line?

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Track the route from Macon, Georgia, to New York City. Did this trip require the use of more than one railway line?

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Which trip would have taken longer or covered more miles, and by how much? (Show your work.)

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Jacob Lawrence, *The Migration Series*, Panel No. 5, 1940–41.

Primary Source 32. Key to railroad lines, detail of Rand McNally Railroad Map.



TAKING THE TRAIN—TRAVEL MATH

- How many cities are listed on the distance table?
 How many cities on the table were in the South?
 How many were in the North?
- Calculate the total number of miles you must travel to complete the following trip:
 You leave Jacksonville, Florida, and travel to Mobile, Alabama, where you meet your grandparents. From there, you travel to Birmingham, Alabama, to spend 2 nights. When you leave Birmingham, you travel all the way to Chicago, Illinois, where you complete your trip. How many miles total have you traveled? (Show your work.)

TRAVEL DISTANCE TABLE
 SHOWING TRAVEL DISTANCES (SHORT LINE) BETWEEN RAILROAD CENTERS IN THE UNITED STATES. (IN STATUTE MILES.)

FROM TO	Atlanta, Ga.	Baltimore, Md.	Birmingham, Ala.	Boston, Mass.	Buffalo, N. Y.	Chicago, Ill.	Cincinnati, Ohio	Cleveland, Ohio	Denver, Colo.	Detroit, Mich.	Duluth, Minn.	Galveston, Tex.	Jacksonville, Fla.	Kansas City, Mo.	Los Angeles, Cal.	Minneapolis, Minn.	Mobile, Ala.	New Orleans, La.	New York, N. Y.	Omaha, Neb.	Philadelphia, Pa.	Pittsburgh, Pa.	Portland, Ore.	Salt Lake City, Utah	San Francisco, Cal.	Savannah, Ga.	Seattle, Wash.	St. Louis, Mo.	St. Paul, Minn.	Washington, D. C.	
Atlanta, Ga.	689	167	1105	906	733	488	723	1517	749	1254	907	335	889	2382	1154	354	495	876	1022	785	799	2800	2052	2755	269	2923	611	1144	649		
Baltimore, Md.	803	416	396	782	590	445	1808	616	1251	1569	796	1208	3013	1203	1043	1182	187	1270	96	314	3045	2297	3043	657	2968	929	1193	40			
Birmingham, Ala.	167	803	1219	898	654	480	715	1377	741	1123	738	474	737	2115	1075	266	355	990	901	899	791	2676	1928	2588	444	2840	487	1065	763		
Boston, Mass.	1105	416	1219	498	1011	916	681	2037	739	1480	1957	1212	1462	3242	1432	1459	1574	229	1499	320	669	3274	2526	3272	1073	3197	1217	1422	456		
Buffalo, N. Y.	906	396	898	498	513	418	183	1539	241	982	1576	1192	964	2744	934	1174	1253	396	1001	419	270	2776	2028	2774	1053	2699	719	924	436		
Chicago, Ill.	733	782	654	1011	513	418	183	1539	241	982	1576	1192	964	2744	934	1174	1253	396	1001	419	270	2776	2028	2774	1053	2699	719	924	436		
Cincinnati, Ohio	488	590	480	916	418	284	235	1258	261	753	1027	823	618	2398	705	756	835	751	718	660	311	2547	1745	2491	724	2470	339	695	552		
Cleveland, Ohio	723	445	715	681	183	339	235	1365	171	808	1262	1058	779	2559	760	991	1070	571	827	480	131	2602	1854	2600	959	2525	536	750	433		
Denver, Colo.	1517	1808	1377	2037	1539	1026	1258	1365	1298	1054	1123	1841	640	1404	895	1427	1330	1935	538	1843	1494	1374	620	1440	1811	1467	919	905	1796		
Detroit, Mich.	749	616	741	739	241	272	261	171	1298	741	1288	1084	716	2496	693	1017	1096	637	760	651	302	2535	1787	2533	985	2458	488	683	604		
Duluth, Minn.	1254	1251	1123	1480	982	469	753	808	1054	741	1543	1552	1024	798	1691	1339	551	412	1728	994	1637	1306	2497	1743	2164	1068	2590	586	150	1239	
Galveston, Tex.	907	1569	738	1957	1576	1148	1027	1262	1123	1288	1543	1552	1024	798	1691	1339	551	412	1728	994	1637	1306	2497	1743	2164	1068	2590	586	150	1239	
Jacksonville, Fla.	335	796	474	1212	1192	1083	823	1058	1841	1084	1552	1024	1181	2615	1504	473	612	983	1349	892	922	3124	2376	3088	139	3216	935	1494	756		
Kansas City, Mo.	889	1208	737	1462	964	451	618	779	640	716	701	798	1181	2615	1504	473	612	983	1349	892	922	3124	2376	3088	139	3216	935	1494	756		
Los Angeles, Cal.	2382	3013	1203	1043	1182	187	1270	96	314	3045	2297	3043	657	2968	929	1193	40	2168	1963	2003	3064	1811	2973	2624	1154	784	473	2341	1341	2059	2178
Minneapolis, Minn.	1154	1203	1075	1432	934	421	705	760	895	693	1017	1096	637	760	651	302	2535	1787	2533	985	2458	488	683	604	2168	1963	2003	3064	1811	2973	
Mobile, Ala.	354	1043	266	1459	1174	930	756	991	1427	1017	1399	551	473	868	1963	1083	1083	1135	1330	357	1238	889	1814	1384	2130	1438	1765	426	10	1191	
New Orleans, La.	495	1182	355	1574	1253	920	835	1070	1330	1096	1389	412	612	867	2003	1135	139	1345	1063	1254	1146	2839	1950	2473	656	2797	699	1125	1118		
New York, N. Y.	876	187	990	229	396	909	751	571	1935	637	1378	1728	983	1360	3064	1330	1230	1345	1397	91	440	3172	2424	3170	844	3095	1059	1320	227		
Omaha, Neb.	1025	1270	901	1499	1001	488	718	827	538	760	517	994	1349	196	1811	357	1064	1063	1397	1271	922	1775	1027	1773	1319	1867	414	367	1224		
Philadelphia, Pa.	785	96	899	320	419	817	660	480	1843	651	1286	1637	892	1207	2973	1238	1139	1254	91	1271	349	3080	2731	887	772	3069	187	2189	1824	3033	
Pittsburgh, Pa.	799	314	791	669	270	468	311	131	1494	302	937	1306	922	844	2624	889	1067	1146	440	922	349	2731	1983	2729	783	2654	619	879	302		
Portland, Ore.	2800	3045	2676	3274	2776	2263	2547	2602	1374	2535	1791	2497	3124	1971	1154	1814	2801	2839	3172	1775	3080	2731	887	772	3069	187	2189	1824	3033		
Salt Lake City, Utah	2052	2297	1928	2526	2028	1515	1745	1854	620	1787	1544	1743	2376	1260	784	1384	2047	1950	2424	1027	2332	1983	887	820	2346	980	1441	1394	2285		
San Francisco, Cal.	2755	3043	2588	3272	2774	2261	2491	2600	1440	2533	2290	2164	3088	1969	473	2130	2436	2473	3170	1773	3078	2729	772	820	2962	959	2187	2140	3031		
Savannah, Ga.	269	657	444	1073	1053	1002	724	959	1811	985	1496	1068	139	1181	2341	1438	526	656	844	1319	753	783	3069	2346	2962	3186	880	1428	617		
Seattle, Wash.	2923	2968	2840	3197	2699	2186	2470	2525	1467	2458	1799	2590	3216	2063	1341	1765	2894	2797	3095	1867	3003	2654	187	980	959	3186	2281	1775	2956		
St. Louis, Mo.	611	929	487	1217	719	284	339	536	919	488	586	849	935	279	2059	426	657	699	1059	414	968	619	2189	1441	2187	880	2281	416	891		
St. Paul, Minn.	1144	1193	1065	1422	924	411	695	750	905	683	150	1349	1494	480	2178	10	1073	1125	1320	367	1228	879	1824	1394	2140	1428	1775	416	1180		
Washington, D. C.	649	40	763	456	436	770	552	433	1796	604	1239	1529	756	1153	2526	1191	1003	1118	227	1224	136	302	3033	2285	3031	617	2956	891	1180		

Primary Source 31. Distance table, detail of Rand McNally Railroad Map.