

Name: \_\_\_\_\_ Organization (if any): \_\_\_\_\_

## 2017 New Jersey History Game: Inventors & Innovators

#	Question	T/F
1	In 1792, Obadiah Herbert of Mount Pleasant was the first Monmouth County resident to be awarded a US Patent, for a spinning wheel.	
2	In 1850, John Bucklin and Charles Sears incorporated the North American Phalanx, a commune in what is now Colts Neck.	
3	Edward Clarke Hazard, a food distributor who purchased a farm in Shrewsbury in 1883, was one of those chiefly responsible for ketchup as we know it today.	
4	Fair Haven architect Robert D. Chandler designed an innovative ice boat in 1884, one of the first of the huge Class A craft to move on two runners instead of four.	
5	Born in Toms River, photographer James R. Applegate patented an improved merry-go-round in 1889 which he used at his recreational pier in Atlantic City.	
6	Monmouth County Clerk James H. Patterson, M.D., patented celluloid billiard balls in 1890.	
7	Guglielmo Marconi first demonstrated radio in the United States for Commodore Dewey's arrival in New York harbor on his flagship <i>Olympia</i> on September 30, 1899.	
8	Henry Miner, Jr. of Fair Haven introduced "The Hook" in vaudeville in 1903 at Miner's Bowery Theatre in New York.	
9	Although unpatented, Monmouth County resident George W. Cole's most popular invention was 3-IN-ONE oil, invented in 1894.	
10	Long Branch life guard Cyril Smack patented an improved life preserver in 1915 and wrote the words for the official Monmouth County song, adopted in 1939 by the Board of Freeholders.	
11	Hattie Carnegie Zanft of Middletown was a leading dress designer in New York from the 1920s to the 1950s.	
12	Soren Adams of Neptune invented the joy buzzer in 1931 and many other novelty toys that he produced in his factory.	
13	African American artist and civil rights activist Lorenzo W. Harris of Asbury Park patented a fortune telling machine in 1934.	
14	With his team, Colonel William R. Blair, director of the Signal Corps Laboratories at Fort Monmouth, developed a functioning radar set in 1937.	
15	The production and widespread military use of FM radio has been credited to Fort Monmouth's Roger B. Colton, who in the late 1930s worked with its inventor, Dr. Edwin Howard Armstrong.	
16	John Hessel at Fort Monmouth's Signal Corps Laboratories was chiefly responsible for the U.S. Army Walkie Talkie, used extensively in WWII.	
17	Scientists at Camp Evans, Fort Monmouth, including John H. DeWitt, Jr. and Walter McAfee, bounced a radar signal off the moon in 1946, helping to usher in the space age.	
18	A key tool for radio astronomy, the Horn Antenna, built in Holmdel by Bell Labs, was patented by Alfred C. Beck of Red Bank and Harald T. Friis of Rumson in 1947.	
19	Built under the direction of Herbert Butler at Fort Monmouth, TIROS-1, the first satellite capable of sending weather photographs to earth, was launched in 1960.	
20	Jacqueline Kennedy christened the nuclear-powered submarine USS <i>Lafayette</i> on May 8, 1962 with a breakable bottle designed by William C. Loughran of Brielle.	
21	Electronic telephone call switching, replacing human operators, was developed by Amos Joel of Bell Labs in Holmdel and made operational in 1965.	
22	Optical fiber for communications using laser light was developed at Fort Monmouth, Bell Labs, and Corning, beginning in 1958.	
23	In 1967, chemist Marilyn Levy of Fort Monmouth published her popular formula for POTA, used to develop exposed photographic film of high contrast subjects.	
24	Monmouth County's most prolific inventor to date is George Albert Lyon of Allenhurst, with almost 1,000 patents for hubcaps and other automotive items.	
25	The system design for cell phones was conceived at Bell Labs in Holmdel before service was introduced experimentally in Chicago in 1978.	

Answers may be found in exhibit captions, reproduced in the catalog, *New Jersey in Focus: Inventors and Innovators in Monmouth County (all answers are true)*.