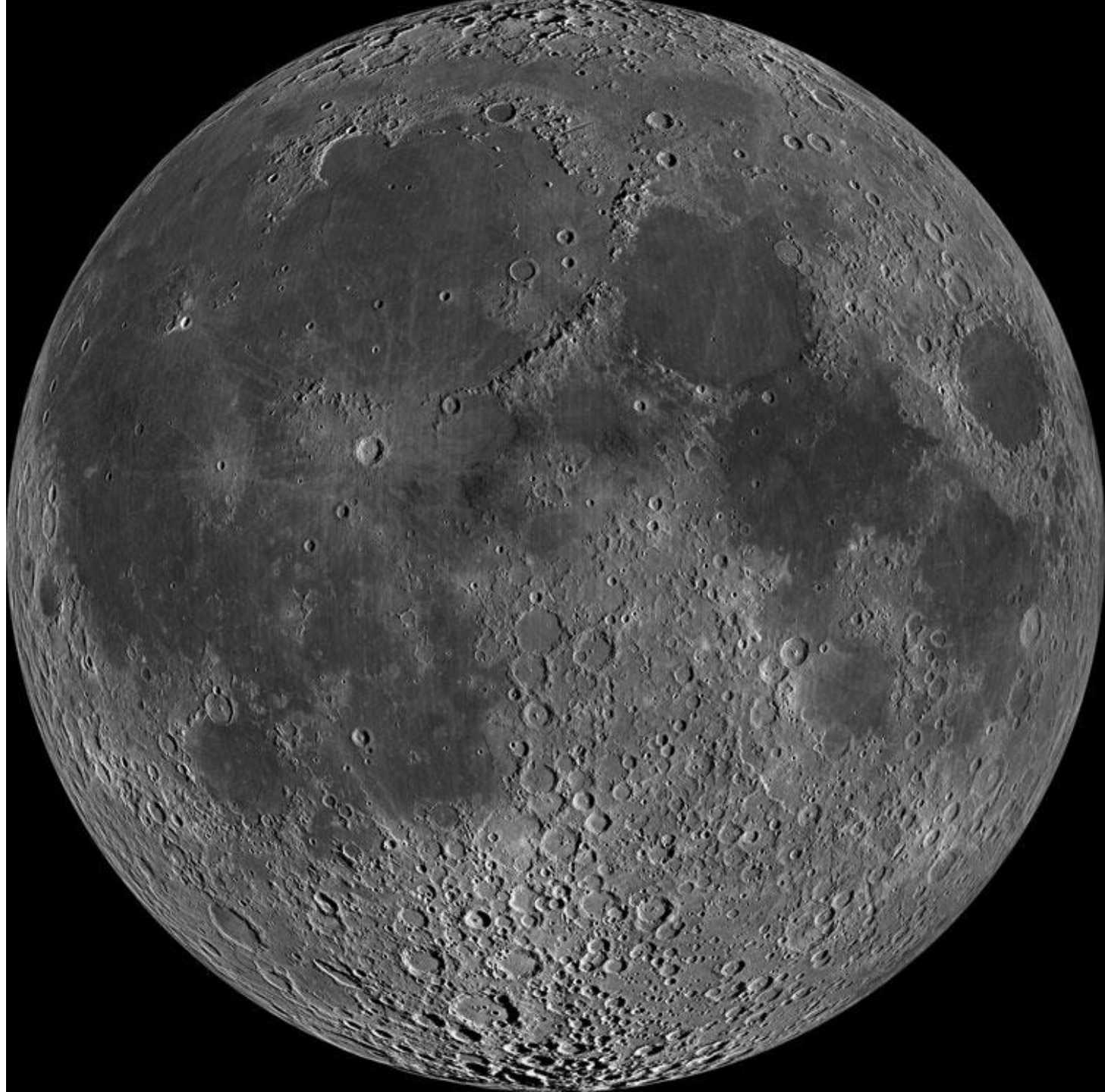




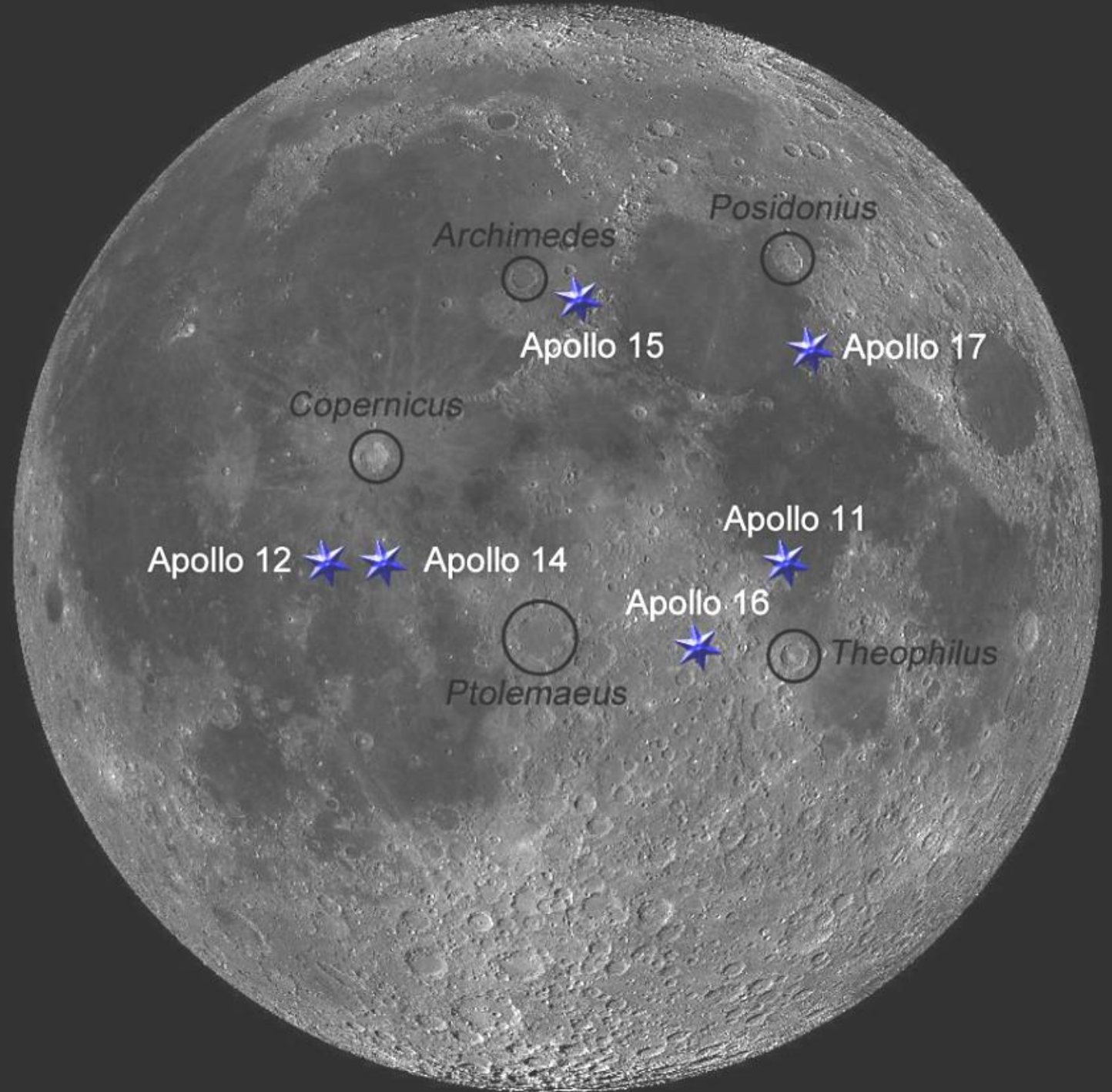
Quiz station

1.

Where did
the Eagle
land?



Tranquility
Base



2. Which of these were a direct spin-off from space research?

Scratch-resistant lenses	Disc brakes
Catalytic converter	Freeze dried food
The computer mouse	CAT Scanners
Handheld battery vacuum cleaners	Foil blankets
Wireless headsets	Tetra Pak cartons

<p style="text-align: center;">Scratch-Resistant Lenses</p> <p>The Lewis Research Centre attempted to develop diamond-hard coatings for aerospace systems, later creating a technique that was developed and patented for just that purpose.</p>	<p style="color: red;">Development of disc-type brakes began in England in the 1890s</p>
<p style="color: red;">The first catalytic converter was developed around 1950 for use in smoke stacks. It was invented by the French engineer Eugene Houdry. However, widespread use of the catalytic converter in cars began only in 1975, when regulations restricting air pollution produced by automobiles were introduced</p>	<p style="text-align: center;">Freeze Dried Food</p> <p>NASA conducted extensive research into space food; one technique they developed was freeze drying, which retains 98% of the nutrients and weighs only 20% of the original weight.</p>
<p style="text-align: center;">Computer Mouse</p> <p>In the 1960s a NASA researcher was trying to make computers more interactive when an idea was suggested about how best to manipulate data on a computer screen, leading to the mouse.</p>	<p style="text-align: center;">CAT Scans</p> <p>A space program needs a pretty good digital image, the JPL played a lead role in developing this technology, which in turn helped create CAT scanners and radiography.</p>
<p style="text-align: center;">Dust Busters</p> <p>NASA approached Black & Decker to develop a lightweight device to collect samples on the moon. The company then used this technology to create the Dustbuster in 1979.</p>	<p style="text-align: center;">Foil Blankets</p> <p>These metallic sheets, which are now used on Earth in extreme temperatures, evolved from a lightweight insulator NASA developed to protect spacecraft and people in space.</p>
<p style="text-align: center;">Wireless Headsets</p> <p>NASA, being one of the forerunners for advancing communication technology, developed these headsets to allow astronauts to be hands-free without wires.</p>	<p style="color: red;">1951 AB Tetra Pak is established in Lund Sweden, by Ruben Rausing. It starts as a subsidiary of Åkerlund & Rausing. On May 18, the new packaging system is presented to the press and attracts great attention</p>

3. How much rock from the Moon did all the Apollo missions bring back to Earth?



3.

- 380.95 kg
- (840 lbs)

Mission	Sample mass returned ^[18]	Year
Apollo 11	21.55 kg (47.51 lb)	1969
Apollo 12	34.30 kg (75.62 lb)	1969
Apollo 14	42.80 kg (94.35 lb)	1971
Apollo 15	76.70 kg (169.10 lb)	1971
Apollo 16	95.20 kg (209.89 lb)	1972
Apollo 17	110.40 kg (243.40 lb)	1972

4. How much rock from the Moon did all the Soviet Union missions bring back to Earth?



4.

- 301 g
- (0.66 lbs)
(10.6 oz)

Luna 16	101 g
Luna 20	30 g
Luna 24	170 g

5. Buzz Aldrin's mother's maiden name was?

Herschel	Collins
Dawson	Eagle
Moon	Kennedy
Armstrong	Apollo
Aldrin	Galilei

5. Buzz Aldrin's mother's maiden name was?

<u>Marion Moon</u>	

6. Which Apollo mission took the first Moon Buggy ([Lunar Roving Vehicle](#))?



6. Which Apollo mission took the first Moon Buggy ([Lunar Roving Vehicle](#))??

Apollo 11 [1969]	Eagle has landed
Apollo 12 [1969]	Precise Moon landing
Apollo 13 [1970]	Returned to Earth due to emergency
Apollo 14 [1971]	First colour TV images from lunar surface
Apollo 15 [1971]	Moon Buggy. Three day stay on surface
Apollo 16 [1972]	Moon Buggy
Apollo 17 [1972]	Moon Buggy. First geologist on the Moon

7. Who is this? What is he famous for and when did he do it? When did he die?



7. Who is this? What is he famous for and when did he do it? When did he die?

- [Yuri Gagarin](#)
- First man in space (aged 27)
- 12th April 1961 (aboard Vostok 1)
 - Maximum altitude of 187 miles
 - Orbited the Earth in 89 minutes
 - Flight lasted 1 hour 48 minutes
- Died in plane crash on 27th March 1968

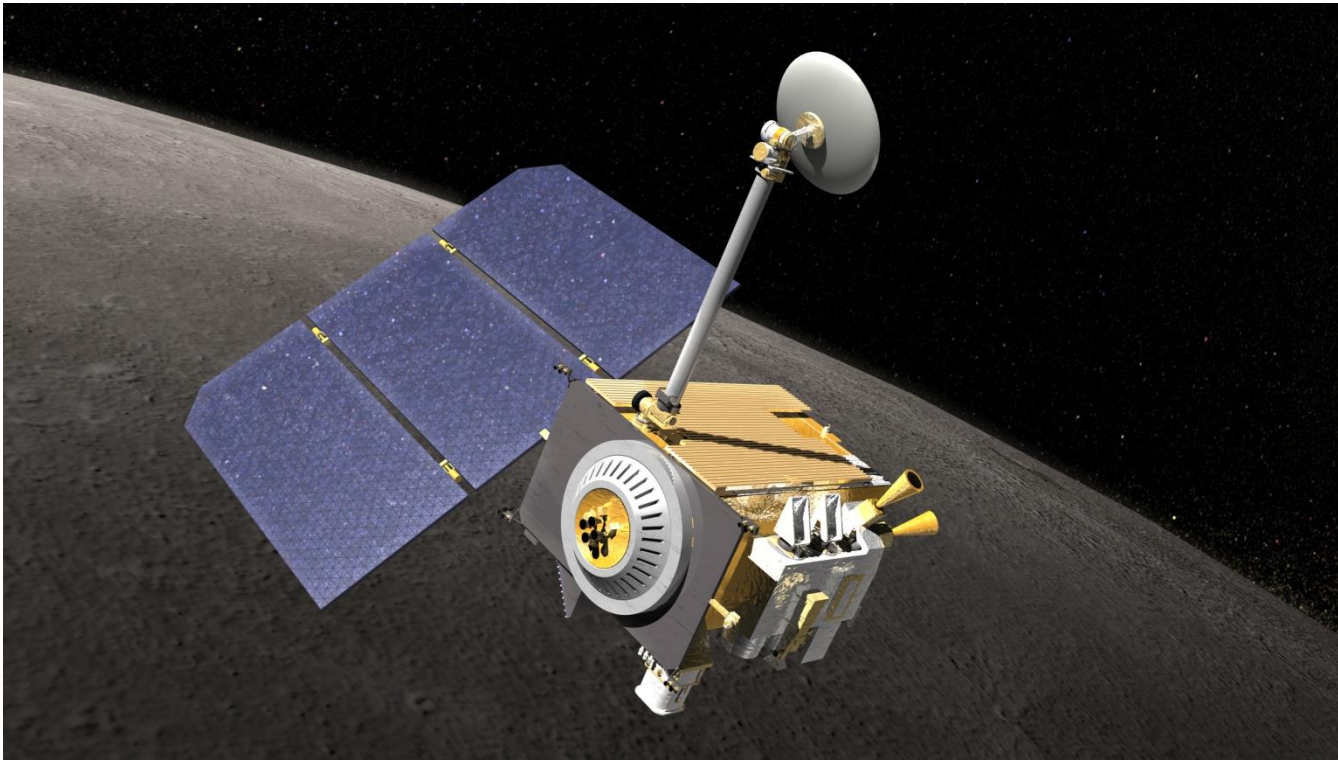
8. How many men walked on the Moon,
and how many are alive now?



8. How many men walked on the Moon, and how many are alive now?

<i>Name</i>	<i>Apollo Mission</i>	<i>Born</i>	<i>Died</i>
Neil Armstrong	Apollo 11	August 5, 1930	August 25, 2012 (aged 82)
Buzz Aldrin	Apollo 11	January 20, 1930	Age 89
Pete Conrad	Apollo 12	June 2, 1930	July 8, 1999 (aged 69)
Alan Bean	Apollo 12	March 15, 1932	May 26, 2018 (aged 86)
Alan Shepard	Apollo 14	November 18, 1923	July 21, 1998 (aged 74)
Edgar Mitchell	Apollo 14	September 17, 1930	February 4, 2016 (aged 85)
David Scott	Apollo 15	June 6, 1932	Age 87
James Irwin	Apollo 15	March 17, 1930	September 8, 1991 (aged 61)
John Young	Apollo 16	September 24, 1930	January 5, 2018 (aged 87)
Charles Duke	Apollo 16	October 3, 1935	Age 83
Gene Cernan	Apollo 17	March 14, 1934	January 16, 2017 (aged 82)
Harrison Schmitt	Apollo 17	July 3, 1935	Age 84

9. Many man-made probes have orbited our moon, but how many are still orbiting?



9. Many man-made probes have now orbited our moon, but how many are still orbiting?

<i>Orbiter</i>	<i>Country</i>	<i>Orbital insertion</i>	<i>Activity</i>
<u>Lunar Reconnaissance Orbiter</u>	USA	23 June 2009	Surface mapping
<u>ARTEMIS P1*</u>	USA	2 July 2011	Study energy releases from <u>Earth's magnetosphere</u> known as <u>substorms</u> , magnetic phenomena that intensify <u>auroras</u> near Earth's poles
<u>ARTEMIS P2*</u>	USA	17 July 2011	
<u>Chang'e 5-T1</u>	PRC	13 January 2015	Service module for Chang'e 5 mission

*Acceleration, Reconnection, Turbulence and Electrodynamics of the Moon's Interaction with the Sun

10. There was about 119 years between the first photograph of the near side of the moon being taken and the first photograph of the far side of the moon being taken. What years were these two photographs taken?

10. Photographs of the Moon

- [John W Draper](#) (New York)
- [Luna 3](#)
- 26th March 1840
- 7th October 1959

