



Down

- 1 A lunar year is **11 days** less than an average (non-leap) year on Earth. If a lunar year is **354 days** long, how long is an Earth year?
- 3 A lunar day lasts the same as **29.5 days** on Earth. How many hours are there in a lunar day?
- 5 In **1547**, John Heywood wrote that the moon was made of "greene cheese". If man first visited the moon and collected samples in **1969**, how many years did it take us to disprove the cheese myth?
- 6 The Apollo 11 mission to the moon comprised Neil Armstrong (**38 years old**), Edwin "Buzz" Aldrin (**39**) and Michael Collins (**38**). What was the total sum of the ages of the astronauts?

Across

- 1 On average, the moon is **237,000 miles** from the Earth. If the Earth is roughly **7,900 miles** in diameter, how many 'Earths' fit between us and the moon? (2)
- 2 Alan Shepard (Apollo 14) was the oldest person to walk on the moon, **11 years** older than the youngest astronaut, Charles Duke (Apollo 16). If Charles Duke was born in **October 1935** and performed his moon walk in **April 1972**, how old was Alan Shepard when he walked on the moon? (2)
- 4 John's class took it in turns to watch the moon each night for **200 days** and record whether it was visible at 10pm every evening. It was overcast on **46%** of the nights, it was hidden behind trees or buildings $\frac{1}{5}$ of the nights and for **two whole weeks**, Alan Gammage forgot to make recordings. How many nights did the class record that the moon was visible? (2)
- 6 On each Apollo mission to the moon, **two** astronauts walked on the surface whilst **one** stayed in lunar orbit. If **12 astronauts** in total walked on the moon, how many astronauts were part of successful Apollo missions to the moon?
- 7 The temperature of on the moon's surface varies massively, from a boiling hot **127°C** to a more than frosty **-154°C**. What is the range of the temperatures?
- 8 Altogether, Saturn and Jupiter have **161 moons**. If Saturn has **three more** moons than Jupiter, how many moons does Saturn have?
- 9 NASA plans to take astronauts back to the moon in **2024** (including the first female astronaut). If successful, how many years will that be between (human) moon walks?

