

Statements: true or false

Here are some common ideas in astronomy. Discuss each statement and decide whether it is true or false. Where you know the answer, make a note of what evidence you base your beliefs on.

| Statement | True | False | Evidence |
|---|--------------------------|--------------------------|----------|
| The Sun rises in the West and sets in the East. | <input type="checkbox"/> | <input type="checkbox"/> | |
| The Sun is directly overhead at midday. | <input type="checkbox"/> | <input type="checkbox"/> | |
| Planets cannot be seen with the naked eye. | <input type="checkbox"/> | <input type="checkbox"/> | |
| Day and night are caused by the Sun going round the Earth once a day. | <input type="checkbox"/> | <input type="checkbox"/> | |
| At night-time, the Sun is covered by clouds. | <input type="checkbox"/> | <input type="checkbox"/> | |
| The Moon makes light the same way the Sun does. | <input type="checkbox"/> | <input type="checkbox"/> | |
| The Sun will never burn out. | <input type="checkbox"/> | <input type="checkbox"/> | |
| There is no gravity in space. | <input type="checkbox"/> | <input type="checkbox"/> | |
| The Sun is a star. | <input type="checkbox"/> | <input type="checkbox"/> | |
| Saturn is the largest planet. | <input type="checkbox"/> | <input type="checkbox"/> | |
| It is hotter in summer as we are nearer the Sun. | <input type="checkbox"/> | <input type="checkbox"/> | |

A survey

1. As seen from your current location, when will an upright flagpole cast no shadow because the Sun is directly above the flagpole?

- A. Every day at noon
- B. Only on the first day of Summer
- C. Only on the first day of Winter
- D. On both the first days of Spring and Autumn
- E. Never from your current location

2. Imagine that you are building a scale model of the Earth and the Moon. You are going to use a 12 cm football to represent the Earth. Roughly, what size object will you need for the Moon?

- A. Another 12 cm football
- B. A pea
- C. A 5 cm tennis ball
- D. A 24 cm water melon

3. Compared to the distance to the Moon, how far away is the Space Shuttle (when in Earth orbit)

- A. Very close to the Earth
- B. About half way to the Moon
- C. Very close to the Moon
- D. About twice as far as the Moon

4. Which one of the following lists is correctly arranged in order of closest-to-most-distant from the Earth?

- A. Stars, Moon, Sun, Pluto
- B. Sun, Moon, Pluto, stars
- C. Moon, Sun, Pluto, stars
- D. Moon, Sun, stars, Pluto
- E. Moon, Pluto, Sun, stars

5. You observe a full Moon rising in the East. How will it appear in six hours?

- A. Full Moon
- B. It will not be visible
- C. A quarter Moon
- D. Crescent Moon