

WELCOME to the SAASTA AstroQuiz 2016 ROUND 4



QUESTION 1

Terrestrial planets are called such because _____

- A. They are all huge and terrestrial in nature
- B. They are all grey and terrestrial in nature
- C. They all have rocky surfaces
- D. They are all in space



QUESTION 3

The imaginary line that divides the world into southern and northern hemispheres is the _____

- A. Prime Meridian
- B. Tropic of Capricorn
- C. Equator
- D. Tropic of Cancer



RULES

- You only have 60 seconds to answer the questions.
- You are allowed to discuss amongst yourselves.
- Calculators may be used if needed.
- No internet is to be used, therefore the use of cellphones is also prohibited.
- The judge's decision is final.



QUESTION 2

In simple terms the zenith is the point on/in the sky _____

- A. Where you are looking when you look "straight up" from the ground
- B. Directly overhead from the North Pole
- C. On the horizon to the due south
- D. Around the Equator



QUESTION 4

The imaginary line that divides the world into eastern and western hemispheres is the _____

- A. Prime Meridian
- B. Tropic of Capricorn
- C. Equator
- D. Tropic of Cancer



QUESTION 5

Blue stars are on average younger than red stars.

- A. True
- B. False

QUESTION 6

The time it takes the Earth to complete one orbit around the Sun is ____

- A. A month
- B. A year
- C. A day
- D. Not known

QUESTION 7

What is the most abundant gas in Jupiter's atmosphere?

- A. Helium
- B. Ammonia
- C. Hydrogen
- D. Oxygen

QUESTION 8

Which two space satellites did South Africa built?

- A. SKA & Sunsat
- B. Sunspace & SKA
- C. SumbandilaSat & Sunspace
- D. Sunsat & SumbandilaSat

QUESTION 9

The first satellite that South Africa built was launched in ____ on an American rocket.

- A. 1994
- B. 1999
- C. 2004
- D. 2009

QUESTION 10

The second satellite that South Africa built was launched in ____ on a Russian rocket.

- A. 1994
- B. 1999
- C. 2004
- D. 2009

QUESTION 11

Both the satellites that South Africa built have ceased operating.

- A. True
- B. False

**QUESTION 12**

South Africa now has its own Space Agency.

- A. True
- B. False

**QUESTION 13**

Which part of the Sun can be seen when its brilliant disk is blocked by the Moon during a total eclipse?

- A. Interior
- B. Corona
- C. Solar sphere
- D. Photosphere

**QUESTION 14**

The coolest part of the Sun that we see with our own eyes is called the ____

- A. Chromosphere
- B. Corona
- C. Solar sphere
- D. Photosphere

**QUESTION 15**

The Sun is gaseous and has no solid part in its structure.

- A. True
- B. False

**QUESTION 16**

For six months of the year from _____ the southern hemisphere is more tilted towards the Sun.

- A. June to December
- B. July to January
- C. August to February
- D. September to March



QUESTION 17

The northern hemisphere is more tilted towards the Sun from ____.

- A. June to December
- B. March to September
- C. September to March
- D. August to February

**QUESTION 18**

Which of the following does not belong to the group?

- A. Deimos
- B. Europa
- C. Huygens
- D. Pandora

**QUESTION 19**

Which of the following does not belong to the group?

- A. Callisto
- B. Titan
- C. Mimas
- D. Dione

**QUESTION 20**

Which of the following is incorrect about planet Neptune?

- A. It has large storms raging on its surface
- B. It has more than 1 moon
- C. It has rings around it
- D. It has craters

**QUESTION 21**

A dwarf planet is a satellite of another celestial body.

- A. True
- B. False

**QUESTION 22**

All planets in the Solar System are satellites of a certain celestial body.

- A. True
- B. False



QUESTION 23

After how many years does Halley's comet return?

- A. 97
- B. 76
- C. 67
- D. 87

**QUESTION 24**

Galaxies often exist in groups called clusters. Our galaxy belongs to a cluster called _____

- A. The Milky Way
- B. The Local Group
- C. The Universe
- D. The Cluster

**QUESTION 25**

An instrument that breaks up white light into its different colours is called a _____

- A. Telescope
- B. Spectroscope
- C. Colourscope
- D. Stethoscope

**QUESTION 26**

A lunar eclipse occurs during the day whilst a solar eclipse occurs only at night.

- A. True
- B. False

**QUESTION 27**

With the analysis of the colours from white light, scientists are able to tell if an object is moving away or towards the Earth.

- A. True
- B. False

**QUESTION 28**

Which of the following is not part of the group?

- A. Hartebeesthoek Radio Astronomy Observatory
- B. South African Astronomical Observatory
- C. Boyden Observatory
- D. Yerkes Observatory



QUESTION 29

Which project is the precursor of the SKA project?

- A. MeerKAT
- B. SALT
- C. H.E.S.S
- D. SAAO

**QUESTION 30**

The Square Kilometre Array telescopes will be erected in Cape Town.

- A. True
- B. False



**THANK YOU
FOR PARTICIPATING**

