The Ultimate Youth Trivia Challenge

Use this key to check answers and read the explanations.

1. In Minecraft, which creature is known for approaching players and exploding?
   - A. Villager
   - B. Creeper
   - C. Cow
   - D. Enderman

   Correct answer: B. Creeper
   Creepers are hostile mobs with an explosive attack.

2. How many players from one basketball team are normally on court during play?
   - A. Eleven
   - B. Six
   - C. Seven
   - D. Five

   Correct answer: D. Five
   A basketball team normally fields five players at once.

3. Which part of a plant normally absorbs water from the soil?
   - A. Roots
   - B. Petals
   - C. Fruit
   - D. Seeds only

   Correct answer: A. Roots
   Roots anchor plants and take up water and dissolved minerals.

4. In The Chronicles of Narnia, Aslan takes the form of which animal?
   - A. Stag
   - B. Wolf
   - C. Lion
   - D. Eagle

   Correct answer: C. Lion
   Aslan is the great lion central to C. S. Lewis's Narnia stories.

5. Which state of matter has a fixed volume but takes the shape of its container?
   A. Gas
   B. Solid
   C. Liquid
   D. Plasma
   Correct answer: C. Liquid
   Liquids flow while retaining a nearly fixed volume under ordinary conditions.

6. Which action best protects an account if its password is stolen?
   A. Having multifactor authentication enabled
   B. Using the same password elsewhere
   C. Posting the password publicly
   D. Turning up screen brightness
   Correct answer: A. Having multifactor authentication enabled
   A second authentication factor can block access even when a password is compromised.

7. Why does a bicycle helmet include crushable foam?
   A. To reduce friction against the air
   B. To increase airflow around the rider
   C. To improve the bicycle's balance
   D. To absorb energy during an impact
   Correct answer: D. To absorb energy during an impact
   Crushing foam helps reduce the forces transmitted to the head; helmets do not eliminate all risk.

8. Most earthquakes happen near what?
   A. The centers of all deserts
   B. Tectonic plate boundaries
   C. The magnetic poles only
   D. Every river mouth equally
   Correct answer: B. Tectonic plate boundaries
   Plate interactions build and release stress along faults.

9. A standard major scale contains how many distinct notes before returning to the starting note an octave higher?
   A. Seven
   B. Five
   C. Eight
   D. Twelve
   Correct answer: A. Seven
   Do, re, mi, fa, sol, la and ti are seven distinct scale degrees; the next do repeats at the octave.

10. Which energy source is renewable on a human timescale?

A. Crude oil
B. Coal
C. Wind
D. Natural gas

Correct answer: C. Wind
Wind is replenished by atmospheric processes, unlike fossil-fuel deposits.

11. Antibiotics directly target which type of infection, when the medicine is appropriate?

A. Every parasitic infection
B. Viral
C. Every fungal infection
D. Bacterial

Correct answer: D. Bacterial
Antibiotics act against bacteria, not viruses; appropriate treatment depends on the infection.

12. A light-year measures what?

A. Time
B. Distance
C. Brightness
D. Mass

Correct answer: B. Distance
It is the distance light travels in a year, not a unit of elapsed time.

13. You flip a fair coin three times. What is the probability of three heads?

A. 1/2
B. 1/3
C. 1/6
D. 1/8

Correct answer: D. 1/8
Multiply one half three times: 1/2 × 1/2 × 1/2 = 1/8.

14. To test whether fertilizer affects plant growth, which comparison is strongest?

A. Same plant type and conditions, varying only fertilizer
B. Different plants in different climates
C. One fertilized plant with no comparison
D. Changing water, light and fertilizer together

Correct answer: A. Same plant type and conditions, varying only fertilizer
Controlling other variables helps isolate the effect of fertilizer.

15. A code uses three different digits chosen from 1, 2, 3 and 4. Order matters. How many codes are possible?

A. 16
B. 12
C. 24
D. 64

Correct answer: C. 24
There are four choices for the first digit, three for the second and two for the third: 24.