What is the value of 5 × 5? [p,e,A,1,1]

What is the square root of 36? [p,e,A,1,1]

Name the largest planet in the Solar System. [p,e,A,1,1]

What is the chemical formula for water? [p,e,B,1,1]

Convert 100 cm to meters. [p,e,B,1,1]

Who wrote the book "Harry Potter"? [p,e,C,1,1]

What is the sum of angles in a triangle? [p,e,C,1,1]

Main Question: (a) Define inertia. (b) Explain its significance in physics. [s,m,A,1,2]

Main Question: (a) Solve 3x + 5 = 20. (b) Find the value of x. [s,m,A,1,2]

How does gravity affect tides? [p,m,B,1,2]

What is the capital city of Germany? [p,m,B,1,2]

Main Question: (a) List three renewable energy sources. (b) State their advantages. [s,m,C,1,3]

Main Question: (a) Convert 500 ml to liters. (b) Name a unit larger than liter. [s,m,C,1,3]

Explain the process of photosynthesis. [p,m,C,1,2]

Main Question: (a) Derive the formula for kinetic energy. (b) Explain its application in real life. [s,h,A,1,5]

Main Question: (a) Describe how hurricanes are formed. (b) Explain their impact on ecosystems. [s,h,B,1,4]

What are the properties of alkali metals? [p,h,B,1,5]

Main Question: (a) Discuss the concept of black holes. (b) Why do scientists study them? [s,h,C,1,5]

Main Question: (a) List three differences between AC and DC currents. (b) Which one is used in households? [s,h,C,1,4]

Discuss the importance of biodiversity in maintaining ecological balance. [p,h,C,1,5]

What is the freezing point of water? [p,e,A,2,1]

What is 7 × 8? [p,e,A,2,1]

Define mass and weight. [p,e,A,2,1]

Name the smallest continent. [p,e,B,2,1]

What is the boiling point of water in Celsius? [p,e,B,2,1]

Who is known as the "Father of Computer Science"? [p,e,B,2,1]

Name two elements present in the air we breathe. [p,e,C,2,1]

Main Question: (a) Define evaporation. (b) Explain its significance in the water cycle. [s,m,A,2,3]

Main Question: (a) Solve 2x - 10 = 0. (b) Find the value of x. [s,m,A,2,2]

What is the atomic number of carbon? [p,m,B,2,2]

Main Question: (a) List three types of clouds. (b) State their features. [s,m,B,2,3]

Explain the principle of reflection of light. [p,m,B,2,3]

Main Question: (a) Define photosynthesis. (b) Why is it essential for life? [s,m,C,2,4]

How does temperature affect the rate of chemical reactions? [p,m,C,2,3]

Main Question: (a) Derive the formula for acceleration. (b) Explain its units. [s,h,A,2,5]

Main Question: (a) Describe plate tectonics theory. (b) Explain its effect on earthquakes. [s,h,B,2,5]

Main Question: (a) Discuss the significance of climate change. (b) Suggest two solutions to mitigate its impact. [s,h,B,2,4]

Explain the working of a solar panel. [p,h,B,2,5]

Main Question: (a) Differentiate between prokaryotic and eukaryotic cells. (b) Why is this classification important? [s,h,C,2,5]

Discuss the challenges in space exploration. [p,h,C,2,5]

What is 10 × 12? [p,e,A,3,1]

Define density and its formula. [p,e,A,3,1]

Who discovered gravity? [p,e,A,3,1]

Name the second largest planet in the Solar System. [p,e,B,3,1]

What is the value of π (pi) approximately? [p,e,B,3,1]

What is the chemical symbol for gold? [p,e,B,3,1]

Name two gases responsible for greenhouse effect. [p,e,C,3,1]

Main Question: (a) Solve 4x + 3 = 15. (b) Find the value of x. [s,m,A,3,3]

Main Question: (a) Define velocity. (b) Explain its difference from speed. [s,m,A,3,2]

What is Newton's third law of motion? [p,m,B,3,2]

Main Question: (a) List three types of energy. (b) State their sources. [s,m,B,3,3]

Explain the working of an electric circuit. [p,m,B,3,3]

How do plants absorb nutrients from soil? [p,m,C,3,3]

Main Question: (a) Define genetic inheritance. (b) Why is it significant in evolution? [s,m,C,3,4]

Main Question: (a) Describe the process of nuclear fission. (b) What is its importance in energy production? [s,h,A,3,5]

Main Question: (a) Explain the greenhouse effect. (b) How can it be reduced? [s,h,B,3,5]

Main Question: (a) Define entropy. (b) Discuss its significance in thermodynamics. [s,h,B,3,4]

Discuss the ethical implications of genetic engineering. [p,h,B,3,5]

Main Question: (a) Explain the Doppler Effect. (b) Why is it useful in astronomy? [s,h,C,3,5]

Main Question: (a) Analyze the impact of deforestation on climate. (b) Suggest measures to combat it. [s,h,C,3,5]