

Inquisitive Bee Sample Questions

QUESTION

How does mathematics help us make smarter financial decisions in daily life?



Prompt

- Think about how we use maths in managing money, budgeting for the month, saving for a goal, or understanding loan interest.
- Consider situations like: calculating how much money you can save after paying all your expenses and understanding how long it will take to repay a loan with interest.
- Use examples from the article and your understanding of maths concepts like percentages, arithmetic, interest, and budgeting to support your explanation.

QUESTION

How do different types of math help astronomers understand space, from figuring out how far away stars are to predicting eclipses and launching rockets?



Prompt

- Consider how different types of math are used: geometry and trigonometry for measuring distances (like with parallax) and understanding apparent sizes of celestial bodies (like the Sun and Moon during an eclipse); algebra and calculus for predicting movements of objects in space (like planets and rockets); and statistics and probability for validating observations.
- Also, think about how specific mathematical laws (like Kepler's Laws and Newton's Law of Universal Gravitation) explain orbits and gravitational forces.