

EmpowerEDA Non Profit, Free Educational Platform

Part 1: Science

Question 1: What is the formula to calculate speed?

Question 2: Describe the difference between speed and velocity.

Question 3: Explain why oil and water don't mix.

Question 4: What is the difference between an element and a compound?

Question 5: How does photosynthesis benefit plants?

Part 2: Math

Question 6: Calculate the perimeter of a rectangle with length 8 cm and width 5 cm.

Question 7:

Question 8: What is the area of a triangle with base 6 units and height 9 units?

Question 10: If a car travels at a constant speed of 60 km/h, how far will it travel in 2.5 hours?

Question 12: Find the circumference of a circle with a radius of 7 cm. (Use $\pi = 3.14$)

Question 13: A recipe calls for 2/3 cup of sugar. If you want to make half the recipe, how much sugar do you need?

Question 15: What is the volume of a cube with side length 4 cm?



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Part 3: Word Problems

Question 16: John runs 5 miles every day for a week. How many total miles does he run in a week?

Question 17: A store is having a sale where everything is 25% off. If a shirt originally costs \$20, how much will it cost during the sale?

Question 18: Mary buys 3 packs of pencils, each containing 12 pencils. How many pencils does she have in total?

Question 19: If a rectangle has a length of 12 units and a width of 8 units, what is its area?

Question 20: A car travels 240 miles in 4 hours. What is its average speed?