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Problem 1 : The table below shows the population of the three largest countries in North America in 2011. Find the total population of these countries. Problem 2: When the Sun orbits the center of the Milky Way, it travels 2.025 x 1014 kilometers. Orbit takes 225 million years. How fast does the Sun travel? Write your answer in scientific notation. Problem 3: Light moves at a speed of 1.86 x 105 miles per second. It takes light from the sun about 4.8 x 103 seconds to reach Saturn. Find an approximate distance from the sun to Saturn. Write your answer in scientific notation. Problem 4: Light moves at a speed of 1.17 x 107 miles per minute. Pluto's average distance from the Sun is 3,670,000,000 miles. On average, how long does it take sunlight to reach Pluto? Write your answer in scientific notation. Detailed Answer Key Problem 1 : The table below shows the population of the three largest countries in North America in 2011. Find the total population of these countries. Solution :Method 1 : Step 1 : First, write each population with the same strength 10.United States : 3.1 x 108Canada : 0.338 x 108Mexico : 1.1 x 108Step 2 : Add multiplier 3.1 - 0.338 - 1.1 - 4.538Step 3 : Write the final answer in scientific notation:4.538 x 108Method 2 :Step 1 : First, write each number in standard notation. United States : 310,000,000Canada : 33,800,000Mexico : 110,000,000Step 2 : Find the amount of numbers in standard notation.310,000,000,000 th 1 000 453,800,000Step 3 : Write the final answer in the scientific notation :453,800,000 and 4.538 x 108Problem 2 : When the Sun orbits around the center of the Milky Way, it travels 2.025 x 1014 kilometers. Orbit takes 225 million years. How fast does the Sun travel? Write your answer in scientific notation. Solution : Key points : The answer is the number of kilometers per year that the Sun travels around the Milky Way. Step 1 : Replace the values from the problem to the course formula. Step 2 : Write an expression for the course over the years in scientific notation. That is, 225 million and 2.25 x 108.Then, we have Step 3: Find the coefficient by dividing decimals and using the laws of exponents. Divide multipliers.2.025 ÷ 2.25 and 0.9 Divide powers 10.1014 ÷ 108 and 1014-8 1014 ÷ 108 No 106 Step 4 : Combine Answers, to write a course in scientific notation.0.9 x 106 and 9.0 x 105Justify and Rate: Use the assessment to check the reasonableness of your response. 9.0 x 105 is close to 106, so the answer is reasonable. Problem 3: Light moves at a speed of 1.86 x 105 miles per second. It takes light from the sun about 4.8 x 103 seconds to reach Saturn. Find an approximate distance The sun is Saturn. Write your answer in scientific notation. Solution : As we have solved question 2, we can decide to get an answer to this question using the distance formula below. Distance - Speed x TimeThen, we get the answer : 8.928 x 108 milesProblem 4:Light travels at a speed of 1.17 x 107 miles per minute. Pluto's average distance from the Sun is 3,670,000,000 miles. On average, how long does it take sunlight to reach Pluto? Write your answer in scientific notation. Solution : As we have solved question 2, we can decide to get the answer to this question using the time formula below. Time and distance/speed Then, we get the answer: 3.14 x 102 minutes Apart from the stuff data above, if you need any other stuff in math, please use our google custom search here. If you have any feedback on our math content, please give us: v4formath@gmail.com We always appreciate your feedback. You can also visit the following web pages on various things in math. 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(iii) The mass of the electron is 0.000,000,000,000,000,000,000,000 000 000 00091093822 kg. Solution (5) Simplification: (i) (2.75 x 107) - (1.23 x 108) (ii) (1.598x1017) - (4.58 x1015) (iii) (1.1017) (1.1017) 017) 2 x 1010) x (1.20 x 10-3) (iv) (8.41 x 104) ÷ (4.3 x 105) Solution Beyond The Things Given Above, if you need any other stuff in math, Please use our custom Google search here. If you have any feedback on our math content, please give us: v4formath@gmail.com We always appreciate your feedback. You can also visit the following web pages on various things in math. 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