

Question:

Adrian's age is three times the age of Harriet and Harriet is half the age of Zack. Calculate the average age of the three in three years if Harriet is 21 years old now.

Reasoning + Answer:

<think> If Harriet is 21 years old now, in three years she will be $21 + 3 = 24$ years. Zack is twice the age of Harriet now, meaning he is $21 * 2 = 42$ years old. In three years, Zack will be $42 + 3 = 45$ years old. Adrian's age is thrice the age of Harriet now, meaning he is $21 * 3 = 63$ years old. In three years, Adrian will be $63 + 3 = 66$ years old. The total age of the three in three years will be $66 + 45 + 24 = 135$ years. The average age of the three in three years will be $135 / 3 = 45$ years </think> <answer>45</answer>