



NOETIC LEARNING

## PROBLEM OF THE WEEK

February 09, 2026

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### THE PROBLEM:

Jane asked about her grandma's age. Her grandma answered, "Well, I am six years younger than your grandpa. Your dad's age is half of your grandpa's age. And we both know that your age is one-quarter of your dad's age." Jane is nine years old. How old is Jane's grandma?



(Source: [Noetic Learning Math Contest](#) )

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## **THE SOLUTION:**

We will work backwards to find Jane's grandma's age. Jane is 9 and she is one-quarter of her dad's age, so Jane's dad is four times as many as Jane's age. Her dad is  $9 \times 4 = 36$  years old. Her dad is half of her grandpa's age, so her grandpa is twice of her dad's age. Her grandpa is  $36 \times 2 = 72$  years old. Her grandma is 6 years younger than her grandpa is, so her grandma is  $72 - 6 = 66$  years old.

**THE ANSWER: 66 YEARS OLD**