NOETIC LEARNING
PROBLEM OF THE WEEK

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)

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 × 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 36×2 = 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