

- 76.** Aunt May says, "My age is a square number and a cube number."
Nephew Neil says, "My age is neither a square number nor a cube number, but it is made from the same digits as your age, Auntie May."
Cousin Cary says, "Neil, I am 10 years less than half of your age."

How old is Cary?

Answer: _____

- 76. Step 1:** First work out Aunt May's age.
The only number under 100 that is square and cube, excluding 1, is 64.
So Aunt May is 64.
- Step 2:** Then work out Neil's age.
Neil's age contains the same digits as Aunt May's, but it is not a square or cube.
So Neil must be 46.
- Step 3:** Finally, work out Cary's age.
 $(46 \div 2) - 10 = 23 - 10 = 13$
- Answer: 13 years old**