

Terence's age is $\frac{3}{8}$ that of Sabrina's age. Candice's age is $\frac{2}{9}$ that of Terence's age. Find the ratio of Candice's age to Sabrina's age.

Solution:

Let x - Sabrina's age, then $\frac{3}{8}x$ - Terence's age and $\frac{2}{9} \times \frac{3}{8}x = \frac{1}{12}x$ - Candice's age.

The ratio of Candice's age to Sabrina's age is

$$\frac{\frac{1}{12}x}{x} = \frac{1}{12}$$

Answer: $\frac{1}{12}$