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**Exercise #3:** Evie and her father are comparing their ages. At the current time, Evie's father is 36 years older than her. Three years from now, Evie's father will be five times her age at that point. How old is Evie now?

(a) Before we start to work with setting up variables, expressions, and equations, let's first do some **guess-and-check** work. Try a few ages for Evie now, and see if any are correct. Think carefully about the information given in the question.

Now  
Evie 10  
Dad  $10 + 36 = 46$

3 Years From Now  
Evie  $10 + 3 = 13$   
Dad  $10 + 36 + 3 = 49$

$5(13) \stackrel{?}{=} 49$   
 $65 \neq 49$   
False!

(b) Set up careful let statements to define **expressions** that keep track of Evie's age and her father's age now and three years from now. Then, set up an equation that summarizes the information in the problem about their ages in five years. Then, solve the equation and check for reasonableness.

Now  
Let Evie's age =  $x$   
Dad's age



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