

JavaScript Dog Age Calculator Instructions

Dogs mature at a faster rate than human beings. We often say a dog's age can be calculated in "dog years" to account for their growth compared to a human of the same age. In some ways we could say, time moves quickly for dogs — 8 years in a human's life equates to 45 years in a dog's life. How old would you be if you were a dog?

Here's how you convert your age from "human years" to "dog years":

- The first two years of a dog's life count as 10.5 dog years each.
- Each year following equates to 4 dog years.

Before you start doing the maths in your head, let a computer take care of it! With your knowledge of math operators and variables, use JavaScript to convert your human age into dog years.

1	Create a variable named <code>myAge</code> , and set it equal to your age as a number. Write a comment that explains this line of code.
2	Create a variable named <code>earlyYears</code> and save the value <code>2</code> to it. Note, the value saved to this variable will change. Write a comment that explains this line of code.
3	Use the multiplication assignment operator to multiply the value saved to <code>earlyYears</code> by <code>10.5</code> and reassign it to <code>earlyYears</code> .
4	Since we already accounted for the first two years, take the <code>myAge</code> variable, and subtract <code>2</code> from it. Set the result equal to a variable called <code>laterYears</code> . We'll be changing this value later. Write a comment that explains this line of code.
5	Multiply the <code>laterYears</code> variable by <code>4</code> to calculate the number of dog years accounted for by your later years. Use the multiplication assignment operator to multiply and assign in one step. Write a comment that explains this line of code.
6	If you'd like to check your work at this point, print <code>earlyYears</code> and <code>laterYears</code> to the console. Are the values what you expected? Check off this task when you're ready to move on.
7	Add <code>earlyYears</code> and <code>laterYears</code> together, and store that in a variable named <code>myAgeInDogYears</code> . Write a comment that explains this line of code.
8	Let's use a string method next.

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	<p>Write your name as a string, call its built-in method <code>.toLowerCase()</code>, and store the result in a variable called <code>myName</code>.</p> <p>The <code>toLowerCase</code> method returns a string with all lowercase letters.</p> <p>Write a comment that explains this line of code.</p>
9	<p>Write a <code>console.log</code> statement that displays your name and age in dog years. Use string interpolation to display the value in the following sentence:</p> <p>My name is NAME. I am HUMAN AGE years old in human years which is DOG AGE years old in dog years.</p> <p>Replace <code>NAME</code> with <code>myName</code>, <code>HUMAN AGE</code> with <code>myAge</code>, and <code>DOG AGE</code> with <code>myAgeInDogYears</code> in the sentence above.</p> <p>Write a comment that explains this line of code.</p>
10	<p>Stretch & Challenge</p> <p>Great work! You can convert any human age to dog years. Try changing <code>myAge</code> and see what happens.</p> <p>If you'd like extra practice, try writing this project without the <code>*=</code> operator.</p>