Multi-Step Problems

The old method of finding a dog’s age in human years is to multiply its age by 7. However, some veterinarians agree that the first two years of a dog’s life together are equal to 35 human years. Each year after that is equal to 3 human years. Spot is a 9-year-old dog. How old is he in human years?

1. Use both the old method and the veterinarians’ method to solve the problem. Show your work below and number the steps you followed in each method.

2. How do the answers you found with the two methods compare?

3. How old is a 6-year-old dog in human years? Use both the old method and the veterinarians’ method.

Old Method __________
Veterinarians’ Method __________
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1. Use both the old method and the veterinarians’ method to solve the problem. Show your work below and number the steps you followed in each method.

**Computations will vary. Sample:**

<table>
<thead>
<tr>
<th>Old Method</th>
<th>Veterinarians’ Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 × 7</td>
<td>Step 1</td>
</tr>
<tr>
<td>63 years</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>−2</td>
</tr>
<tr>
<td></td>
<td>7 years</td>
</tr>
</tbody>
</table>

2. How do the answers you found with the two methods compare?

**Using the old method, Spot is 63 years old in human years. Using the veterinarians’ method, Spot is 56 years old in human years.**

3. How old is a 6-year-old dog in human years? Use both the old method and the veterinarians’ method.

Old Method ____42____  Veterinarians’ Method ____47____