Math Real Life Problem

 Introduction

I compose a real life that will lead to the formation of a linear equation. I solve the linear equation using method. I make sure that my answers I get are appropriate for the problem that I composed. This assignment is due on Thursday, 15 December 2011.

 Problem

2 years ago, Mr. John and his son total age were 56. In present day, Mr. John age is 4 times as his son age. Find their present age and find their age in the next 5 years.

 The linear equation

|  |  |  |  |
| --- | --- | --- | --- |
| Name | 2 years ago | Present age | Next 5 years |
| Mr. John |  4$x-2$ |  4$x$ |  $4x+5$ |
| Son | $$x-2$$ | $$x$$ |  $x+5$  |
| Total |  56 |  ? |  ? |

 Solving:

= $(4x-2$) + ($x-2$)$=56$

= 4$x-2$ + $x-2=56$

= $4x+x-2-2=56$

= $5x-4=56$

= $5x=56+4$

= $5x=60 $

= $x=12$

Solve the linear equations

|  |  |
| --- | --- |
| First Method | Second Method |
|  = $(4x-2$) + ($x-2$)$=56$= 4$x-2$ + $x-2=56$= $4x+x-2-2=56$= $5x-4=56$= $5x=56+4$= $5x=60 $= $x=12$ | $$56+4=60$$$$60=x+4x$$$$60=5x$$$$x=12$$$$4x=4 X 12$$$$4x=48$$I got number “4” from, 2 (the difference of Mr. John age in present day and 2 years ago) + 2 (the difference of son age in present day and 2 years ago). This number “4” is different from the difference of Mr. John age which is 4 times as his son age. |

Answer

|  |  |  |  |
| --- | --- | --- | --- |
| Name | 2 years ago | Present Age | Next 5 Years |
| Mr. John | 46 years old | 48 years old | 53 years old |
| Son | 10 years old | 12 years old | 17 years old |
| Total | 56 years old | 60 years old | 70 years old |

Reflection

1. Try to explain how you know that your results are accurate? Justify your findings with another method. (Refer to question #3)

My result/ my statement is already tested by inserting numbers to find the answer. My statement is already matched with the problem that I made. Evaluating is a way for me to keep the answer matched with the problem that is made.

Example:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | 2 years ago | Present Age | Next 5 Years |
| Mr. John | 46 years old | 48 years old | 53 years old |
| Son | 10 years old | 12 years old | 17 years old |
| Total | 56 years old | 60 years old | 70 years old |

The total ages of both, Mr. John and his son, were 56 years old. That total ages of both, Mr. John and his son, were the same as the problem that is made. The problem is “2 years ago, Mr. John and his son total age were 56…”The result that I found of the total ages of Mr. John and his son is the same as the problem that is made. My result is also accurate because, my other is also the same as the problem given. As the problem says, “In present day, Mr. John age is 4 times as his son age…” my result of Mr. John age in present day is 4 times as his son age. My result shows Mr. John age is present day is 48 years old while his son age is 12 years old. This result is the same as the problem given.

1. Reflect on both methods. Give the advantage(s) and disadvantage(s) of these methods and what improvement(s) should be added to the methods!

|  |  |  |  |
| --- | --- | --- | --- |
| Methods | Advantages | Disadvantages | Improvements |
| 1st method | - The process of finding the answer is accurate. The final result is also accurate. | - Misspell words/writing could make a fatal mistake of the final result.- It takes a longer time to find the result | - Making the process in simple way, faster way, and accurate result. |
| 2nd method | - It takes shorter time to find the result of the problem- The method is a simple method to find the result of the problem. | - The process of finding the answer is not so accurate-This kind of method is only available for some problems. | -  |

1. How can your results be related to real life?

We could this method in our daily life, such as in trading, farmer (finding the result of sale in present year, last year, or next year) and ranch (finding the result of sale in present year, last year, or next year. This methods and result are very useful in our daily life.