

## Answer on Question #56334 – Math – Algebra

If Rabias average rose from 62 to 82, by what percent did her average increase?

### Solution

#### Method 1

If Rabias average rose from 62 to 82, her average increased by

$$\frac{82 - 62}{62} \cdot 100\% = 32\%$$

#### Method 2

The initial average of Rabias is 62 and it is 100%. If the new average is 82 and it will be X %.

Compose a system of equations:

$$\left. \begin{array}{l} 62 \quad - \quad 100\% \\ 82 \quad - \quad X\% \end{array} \right\} \Rightarrow \begin{array}{l} 62 \cdot X = 82 \cdot 100 \\ X = 132\% \end{array}$$

Consequently her average increased by 32%.

**Answer:** her average increased by 32%.