18

Mbaka bought some plots at Ksh 400,000 each. The value of each plot appreciated at the rate of 10% per annum.

(a) Calculate the value of a plot after 2 years.

(b) After some time t, the value of a plot was Ksh 558,400. Find t, to the nearest month.

(c) Mbaka sold all the plots he had bought after 4 years for Ksh2,928,200. Find the percentage profit Mbaka made, correct to 2 decimal places.

12

The table below' shows income tax rates in a certain year.

Monthly income in Ksh.	Tax rate in each shilling (%)
0 – 10 164	10
10 165 – 19 740	15
19 741 – 29 316	20
29 317 – 38 892	25
38 893 and above	30

In that year, mawira earned a salary of 41000 per month. calculate mawira's income tax per month given that a monthly tax relief of ksh 1162 was allowed

Atika School