Answer on Question #48920 – Math – Algebra

State sales tax y is directly proportional to retail price x. An item that sells for 186 dollars has a sales tax of 14.42 dollars. Find a mathematical model that gives the amount of sales tax y in terms of the retail price x. What is the sales tax on a 250 dollars purchase?

Solution

T = P * x14.42 = 186 $P \rightarrow P = \frac{14.42}{186} = 0.0775 = 7.75\%$

T = 0.0775 * x

T(250) = 250 * 0.0775 =\$19.38