

Calculating Income Tax Bracket 3

1. Haleema is paid \$125 000.00/year to manage a large department store. How much income tax does she pay?

Step 1: Calculate how much of her earnings fall into the third bracket:
third tax bracket earnings = \$125 000.00 - \$43 561.00 - \$43 562.00
= \$37 877.00

Step 2: Calculate how much income tax is paid in each bracket.

$$\begin{aligned}
 \text{Income tax} &= \text{first bracket tax} + \text{second bracket tax} + \text{third bracket tax} \\
 &= (\text{tax rate} \times \text{first bracket pay}) + (\text{tax rate} \times \text{second bracket pay}) \\
 &\quad + (\text{tax rate} \times \text{third bracket pay}) \\
 &= (25\% \times \$43\,561.00) + (32\% \times \$43\,562.00) \\
 &\quad + (36\% \times \$37\,877.00) \\
 &= (0.25 \times \$43\,561.00) + (0.32 \times \$43\,562.00) \\
 &\quad + (0.36 \times \$37\,877.00) \\
 &= \$10\,890.25 + \$13\,939.84 + \$13\,635.72 \\
 &= \$38\,465.81
 \end{aligned}$$

Haleema pays \$38 465.81 in income tax.