MSL SAMPLE ITEMS

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The function below determines the amount of yearly tax a person must pay, which is based on the amount of money they earn each vear.

$$t(x) = \begin{cases} 0.10x & ,0 \le x < 12,750 \\ 0.07(x - 12,750) + 765 & ,12,750 \le x < 60,000 \\ 0.0775(x - 60000) + 4,072.50 & ,x \ge 60,000 \end{cases}$$

- Describe the domain and range of the tax function in context.
- b. Identify the domain and range of t(x).
- Based on the function provided, explain how the amount of tax owed changes if your earnings increase from \$10,000 to

Damain (x): the amount of nuney operson will make in a year based on Lange tax): The amount of taxes a person will pay in a year based on there income

\$18,000 you only have topay so cents per dollar carned, 50 you make \$2,750 would once \$1,000 intaxes that year out once you make \$2,750 or more, you only pay 7 cent per dellar savned over 12,750 + an extra remont 8 you would have to pay \$3,372.50 interest that year pur faxes and would go train 1/200 to #337250 so you would TWE 152 572.50 More when you make \$50,000 than when genrate bother.