CheggSolutions - Thegdp

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## **Corporate Income Tax Calculation**

### Step 1: Calculate Gross Profit

The gross profit is derived by subtracting the cost of goods sold from the total sales.

Gross Profit of \$410,000 calculated as \$1,060,000 (Sales) minus \$650,000 (Cost of Goods Sold).

## Step 2: Calculate Earnings Before Tax (EBT)

Earnings Before Tax is calculated by adjusting Gross Profit for interest, operating expenses, and depreciation, while adding taxable dividends.

EBT calculated as \$77,000 by considering Gross Profit and accounting for all necessary deductions and the taxable part of dividend income.

#### Step 3: Calculate Tax Liability

Laddered approach using tax brackets:

- For first \$50,000, tax is at 15%: \[ \text{Tax} = \\$50,000 \times 0.15 = \\$7,500 \]
- For remaining \$27,000 (i.e., \$77,000 \$50,000): \[ \text{Tax} = \\$27,000 \times 0.25 = \\$6,750 \]

Total Tax Liability: \[ \text{Total Tax} = \\$7,500 + \\$6,750 = \\$14,250 \]

The tax liability is determined by first applying the 15% rate to the first \$50,000 of EBT, and then applying the 25% rate to the remaining \$27,000.

Tax Liability summed up as \$14,250 by applying appropriate tax rates to different income brackets.

#### Step 4: Calculate Average Tax Rate

The average tax rate is derived by dividing the total tax by the EBT.

Average Tax rate is calculated as approximately 18.51%.

## Step 5: Marginal Tax Rate

Marginal Tax Rate for EBT range (up to 77,000) is \*\*25%\*\* (as last bracket was 50,001 - 75,000 slab before it stepped up to next slab).

The marginal tax rate is the rate applied to the last dollar of taxable income.

Marginal Tax Rate is 25% for any additional income within the given EBT bracket.

#### **Final Solution:**

1. Tax Liability: \\$14,250 (Rounded to nearest dollar)
2. Average Tax Rate: 18.51%
3. Marginal Tax Rate: 25%