a) i) Western Oil Company

Future costs associated with the acquisition/construction and use of non-current assets, such as the environmental costs in this case, should be treated as a liability as soon as they become unavoidable. For Western Oil, this would be at the same time as the platform is acquired and brought into use. The provision is for the present value of the expected costs and this same amount is treated as part of the cost of the asset. The provision is 'unwound' by charging a finance cost to the statement of comprehensive income each year and increasing the provision by the finance cost. Annual depreciation of the asset effectively allocates the (discounted) environmental costs over the life of the asset.

Statement of comprehensive income for the year ended 31 December 2012 CHc'000

| | GUC 000 |
|------------------------------------|---------|
| Depreciation (see below) | 36,900 |
| Finance costs (GHc69 million x 8%) | 5,520 |

Statement of financial position as at 31 December 2012

| Non-current assets | |
|--|----------------|
| Cost (GHC300 million + GHC69 million (GHC150 million x 0.46)) | 369,000 |
| Depreciation (over 10 years) | (36,900) |
| | <u>332,100</u> |

Non-current liabilities Environmental provision (GHC69 million x 1.08)

E/R NUR ENB Year Beginning 25% 20% Balance 500,000 Jan 2012 125,000 (100,000)525,000 Cash flow Stat. of Fin **Income Stat** Position

AMORTISED COST STATEMENT

| Income Stat | 2012 December | | |
|--------------------|----------------|-------------|-------------------|
| Int. Exp | <u>125,000</u> | | |
| Import loss | <u>217,800</u> | | |
| | | | 600,000 of |
| | | | @ 75% for |
| | | | 3 years |
| Stat. of Fin. Posi | tion | | - |
| Loan 3 | 07,200 | | <u>307,200</u> PL |
| | | Import loss | <u>217,800</u> |

74,520

ii) Asona Ltd

*In 2011

The Income statement for 2011 shows a depreciation of GHC100,000 (GHC2,000,000/20years)

The statement of financial position as at 31 December 2011 shows the following:

- The asset at a carrying amount of GHC2,470,000 (under non-current assets)
- A revaluation surplus of GHC570,000 (GHC2,470,000 GHC1,900,000) is shown under equity*

Not required by the question

In 2012

*

- Depreciation of GHC130,000 (GHC2,470,000/ 19 years(remaining useful life)) is charged to income statement
- A transfer should be made from revaluation surplus to retained earnings through the statement of changes in equity of the excess depreciation of GHC30,000 (130,000 charged less 100,000 (1,900,000/19) based on the original cost) and thereby reducing the revaluation surplus to GHC540,000
- The carrying amount of the asset as at 31 December 2012 is now GHC2,340,000 (GHC2,470,000 GHC130,000) but this should be reduced to the recoverable amount of GHC1,600,000.
- The impairment loss is GHC740,000, of which GHC540,000 should be recognized in other comprehensive income (reducing the revaluation surplus to nil) and the GHC200,000 remainder is recognized as an expense in the income statement

iii) Aboabo Ltd

The financial difficulty and granting of concession to Adom Ltd are both objective evidence of impairment. The recoverable amount should be calculated as GHC307,200 by discounting the GHC600,000 agreed repayment at the original effective interest rate of 25% over a three year period (2012 -2015) (GHC600,000 X $1/1.25^3$). An impairment loss of GHC217,800 (525,000 -307,200) should be recognized at 31 December 2012.

| Income Statement for 2012 (extracts) | |
|--------------------------------------|-----------|
| Interest Income (25% of 500,000) | 125,000 |
| Impairment loss | (217,800) |

SOFP as at 31 December 2012 Non Current asset Financial Asset

307,200

b) Demerits of Historical Cost Accounts

- The net book values of non-current assets are often substantially below their current value.
- The Statement of Financial Position figure for inventory reflects prices ruling at the date of purchase or manufacture rather than at the year- end.
- Charges made in arriving at the profit do not reflect the current value of assets consumed. The effect is to exaggerate the profit in real terms.

If the profit determined in this way were distributed in full, the level of operations would have to be curtailed.

• No account is taken of the effect of increasing prices on monetary items.

For example, the cash tied up in receivable increases even where the volume of operation remains the same.

- The overstatement of profits and the understatement of assets prevent a meaningful calculation of return on capital employed.
- Adherence to original historical costs leads inevitably to the misstatement of asset value and profitability. Statement of Financial Position no longer represents a meaningful representation of the economic state of affairs of a business.
- As a result of the above, users of financial statements find it extremely difficult to assess a company's progress from year to year or to compare the results of different operations.

The application of CCA

- The basic concept underlying current cost accounting is that the firm is a going concern which is continuously replacing its assets. Therefore the cost of consuming such assets in the profit generation process should be equivalent to the cost of their replacement. It focuses on the specific commodities and assets employed by the firm taking into account changes in the price of such commodities and assets reflected in specific price indices.
- Current cost accounting is addressed to the concept of capital maintenance interpreted as maintaining the operating capacity of the firm. It involves:

- Calculating current operating profit by matching current revenues with the current cost of resources exhausted in earning those revenues.
- Calculating holding gains and losses
- Presenting the Statement of Financial Position in current value terms.
- The current cost statement of comprehensive income is charged with the value to the business of assets consumed during the period. In particular, the charges for consuming inventory (cost of sales) and non-current assets (depreciation) are based on current rather than historical values. This requires the following adjustments to be made to the historic cost profit:
 - Cost of sale adjustments
 - Depreciation adjustment
 - Monetary Working Capital adjustment, and
 - Gearing adjustment
- The current cost statement of financial position reflects the current value of inventory and non-current assets. These are stated at current value to the business or deprival values [the lower of replacement cost and recoverable amount

(a) <u>WORKINGS</u>

| | | Share | holdings |
|-----------------------|-----------|------------|------------|
| | | Tema | Kumasi |
| Group Interest | | | |
| <u>160,000</u> x 100% | | 80 | 60 |
| 200,000 | | | |
| N C I | | 20 | _40 |
| | | <u>100</u> | <u>100</u> |
| | | | |
| Reduction in NCI | | | |
| 80% x 20 | 16 | | |
| Existing control | <u>60</u> | <u>76%</u> | |

| Calculation of Goodwill | G | Tema | NGI |
|---|---|--------------------------|--------------------------------|
| Cost of Investment 160,000 x 2 Fair value | Group 320,000 | | NCI |
| 40,000 shares for | 320,000 | | <u>125,000</u> 125,000 |
| Shareholders Fund Stated capital Ordinary shares Income surplus Capital surplus | $200,000 \\ 60,000 \\ 40,000 \\ 200,000$ | | |
| X 80% | 300,000 | <u>240,000</u> 80,000 | <u>60,000</u> <u>65,000</u> |
| Total Goodwill [80,000 + 6 | 5,000] | <u>145,000</u> | |
| Calculation of Goodwill Cost of Investment Fair value | Group 130,000 | Kumasi | NCI 85,000 |
| <u>Shareholders Fund</u> Stated capital Income surplus Capital surplus X 80% | 100,000 30,000 <u>50,000</u> 180,000 | <u>108,000</u> 22,000 | <u>72,000</u> 13,000 |
| Total Goodwill [22,000 + | 13,000] | | <u>35,000</u> |

| Calculation of NCI | T | 17 ' |
|--|----------------------------|---------------|
| Stated Capital | <u>Tema</u> | <u>Kumasi</u> |
| Stated Capital Ordinary shares | 200,000 | 100,000 |
| Income surplus | 100,000 | 80,000 |
| Capital surplus | 80,000 | 50,000 |
| | 380,000 | 230,000 |
| | 20% | 40% |
| NCI | 76,000 | 92,000 |
| Goodwill | 65,000 | 13,000 |
| | 141,000 | 105,000 |
| NCI in Equity | <u>150,000</u> | 20,000 |
| Preference | 291,000 | 125,000 |
| | | |
| [201.000 + 125.000] | 416.000 | |
| [291,000 + 125,000] Less Reduction of NCI | 416,000 | |
| Less Reduction of INCI | <u>(42,000)</u> 274,000 | |
| | <u>374,000</u> | |
| Calculation of NCI Reduction | | |
| $16 \ge 105,000 = 42,0$ | 000 | |
| $\frac{40}{40}$ | | |
| | | |
| Other Equity | | |
| Cost of Investment 5 | 0,000 | |
| Reduction in NCI <u>4</u> | 2,000 | |
| | 8,000 | |
| | | |
| Calculation of Income Surplus | | |
| | GHC | |
| Balance b/f | 150,000 | |
| Post Acquisition | 22 000 | |
| Tema $(100,000 - 60,000) \times 80\%$ | 32,000 | |
| Kumasi (80,000 – 30,000) x 60% | <u>30,000</u> | |
| Less unrealised profit | 212,000 | |
| 25% x 20,000 (5,000) | | |
| 20% x 5,000 (5,000) 20% x 5,000 1,000 | | |
| Unrealised profit (15,000) | | |
| | <u>(19,000)</u> | |
| Balance c/d | 193,000 | |
| | | |

| AS AT 31 ^S | T DECEMBER 2012 | |
|--|-----------------|------------------|
| | GHC | GHC |
| Non-Current assets | | |
| Property, plant & equipment (420 + 410 | | |
| 400, +1-5) | | 1,226,000 |
| Goodwill (145 + 35) | | <u>180,000</u> |
| Investment | | 1,406,000 |
| Current assets | | 100,000 |
| Inventory $(150 + 120 + 100 - 15)$ | 355,000 | |
| Trade receivables $(200 + 150 + 130)$ | 480,000 | |
| Bank balance $(100 + 50 + 20)$ | <u>170,000</u> | |
| | | <u>1,005,000</u> |
| | | <u>2,511,000</u> |
| Equity and Liabilities | | |
| Stated capital | | |
| Ordinary shares | | 500.000 |
| Preference shares | | 200,000 |
| Income surplus | | 193,000 |
| Capital surplus | | 232,000 |
| Other equity | | (8,000) |
| NCI | | 374,000 |
| | | 1,491,000 |
| | | |
| Long term debt | | |
| 30% Bonds (100 + 120 + 50) | | 270,000 |
| Current Liabilities | | |
| Trade payables $(100 + 150 + 300)$ | 550,000 | |
| Tax (70 + 80 + 50) | 200,000 | |
| | | 750,000 |
| | | <u>2,511,000</u> |

ACCRA LTD CONSOLIDATED STATEMENT OF FINANCIAL POSITION <u>AS AT 31ST DECEMBER 2012</u>

| Loan Gambia Subsidiary | |
|--|--|
| <u>January 2012</u> - Loan Amount Rate GHC1:15 | <u>Individual Account</u> GHC3m D45m |
| 31 December 2012 Loan Amount Rate GHC1:20 Exchange loss | GHC3m <u>GHC60m</u> <u>GHC15m</u> |
| In Group Accounts In Average Rate D15 m/17.5 | = <u>857,143</u> |
| Movement in Equity In Gambia's Book 15,000,000/20 Exchange loss | <u>750,000</u> <u>107,143</u> |

OR

(b)

In the separate financial statement of ABC Ltd, there is no exchange difference in the entity's financial statements, as the loan has been made in GHC.

In the foreign subsidiary's financial statements, the loan is translated into its own functional currency (D) at the rate of GHC1= D15, or D45 million as of January 1, 2012. At year-end, the closing rate will be used to translate this loan. This will result in the loan being restated at D60 million (GHC3 million \times 20), giving an exchange loss of D15 million, which will be shown in the subsidiary's income statement.

In the group financial statements, this exchange loss will be translated at the average rate, as it is in the subsidiary's income statement, giving a loss of (D15 million/17.5), or approximately GHC857,000. This will be recognized in equity.

There will be a further exchange difference (gain) arising between the amount included in the subsidiary's income statement at the average rate and at the closing rate: that is, GHC857,000 minus GHC750,000 (D15 million/20), or D107,000. Thus the overall exchange difference is GHC750,000. This will be recognized in equity.

| (i) | If the Company decides to windup | | | |
|-----|---|---------------|---|-------------------|
| | Break up values | GHC | | GHC |
| | Land & Buildings | | | 80,200 |
| | Property, Plant & Equipment | | | 42,300 |
| | Computers & Software | | | 32,100 |
| | Investment | | | 16,400 |
| | Inventories (46,700 – 6,200) | | | 40,500 |
| | Trade receivables | | | |
| | - 60% - (38,400 x 60% x 0.15) | 3,456 | | |
| | - 40% - (38,400 x 40% x 55%) | 8,448 | | <u>11,904</u> |
| | | | | 223,404 |
| | Less Liabilities | | | |
| | Bank overdraft | 36,800 | | |
| | Trade payables | 50,700 | | |
| | Liquidation expenses | 11,250 | | |
| | Short term credit | 10,000 | | |
| | Medium term facility | 80,000 | | |
| | Interest on medium term (80,000 x 12% x 4 years) | <u>38,400</u> | | (227,150) |
| | Balance available | | | (3,746) |
| | Preference shareholders | 300,000 | | |
| | Preference share dividend (300,000 x 14% x 2 years) | 84,000 | | |
| | Ordinary shareholders | 100,000 | | |
| | | | | <u>(484,000)</u> |
| | Maximum Loss on Liquidation | | | (<u>487,746)</u> |
| | Analyzed as follows: | | | |
| | | GHC | | |
| | , <u> </u> | 00,000 | - | 100% |
| | | 374,000 | - | 100% |
| | 3) Medium term Creditors [(80,000 + 38,400 - 104,654] ÷ 118,400) | 13,746 | | 11.6% |

| If the Company Decides to Re-organ | | ~ · · · | |
|------------------------------------|---------|----------|--------------|
| | Book | Revalued | Loss on Re- |
| | Value | Amount | organization |
| | GHC | GHC | GHC |
| Buildings & land | 140,700 | 195,000 | (54,300) |
| Property, plant & equipment | 99,500 | 120,500 | (21,000) |
| Computers & software | 110,600 | 95,000 | 15,600 |
| Investment | 40,200 | 21,000 | 19,200 |
| Inventories | 46,700 | 40,500 | 6,200 |
| Receivables | 38,000 | 11,904 | 27,096 |
| Income surplus | | 127,800 | |
| Capital surplus | | (26,400) | |
| Gain medium term facility | | | |
| (80,000 x 40%) | | (32,000) | |
| Maximum loss on Re-organization | | | (61,596) |

If the Company Decides to Re-organize)

Advice to Directors

| | Absolute | Cost Impact |
|-----------------------------|----------|-------------|
| | Amount | on Equity |
| | GHC | % |
| Net loss on Winding-up | 487,746 | 166.7 |
| Net loss on Re-organization | 61,596 | 38.5 |

Recommendation: The Directors should re-organize the company.

| (ii) <u>STATEMENT OF FINANCIAL POSITION AS AT</u> | 1 JANUARY, 2 | 2013 |
|---|-----------------|-----------------------------|
| | GHC | GHC |
| Non-Current Assets | | |
| Land & buildings | 195,000 | |
| Property, plant & equipment | 120,500 | |
| Computers & software | 95,000 | |
| | | 410,500 |
| Investment | | 21,000 |
| | | 431,500 |
| Current Assets | | |
| Inventories | 40,500 | |
| Receivables | <u>11,904</u> | |
| | 52,404 | |
| | | |
| Current Liabilities | | |
| Trade payables | <u>(50,700)</u> | |
| Net current assets | | 1,704 |
| | | Page 10 of 16 |

| | | | 433,204 |
|---|-----|--|---|
| Less 12% Medium Term Facility Net Assets | | | <u>(48,000)</u> <u>385,204</u> |
| <u>Financed By</u> : Stated capital | | <u>385,204</u> | |
| Notes: (i) Allocation of Loss on re-organization | | | |
| (i) Thiocation of Loss on te organization Balance b/f Share of Loss (ii) Issue of Additional Shares Bank Overdraft - 36,8 Short-Term Credit - 10,0 46,8 | 000 | Preference Shares GHC 300,000 <u>300,000</u> | <u>Total</u> GHC 400,000 <u>(61,596)</u> <u>338,404</u> |
| (iii) <u>Stated Capital</u> : Ordinary shares - 38,40 Issues of shares - <u>46,80</u> Preference shares | | 85,204 <u>300,000</u> <u>385,204</u> | |

| Net Assets Method | GHC'000 |
|-------------------------------------|---------|
| Net Assets as per the draft account | 14,400 |
| Adjustments: | |
| Revaluation surplus –buildings | 1,500 |
| Fair valuation surplus –AFSFA | 100 |
| Allowance for doubtful debts | (750) |
| Impairment loss | (20) |
| Value of business | 15,230 |

Price earnings Ratio Method

Value of business = Earnings x PE Ratio

| Earnings | GHC'000 |
|---|---------|
| Per draft accounts [GHC0.35 X 8 million shares] | 2,800 |
| Adjustments | |
| Allowance for doubtful debts | (750) |
| Impairment loss | (20) |
| | 2,030 |

PE Ratio

Taken that the PE Ratio of the unlisted entity must be adjusted for lack of marketability and higher risk

PE Ratio of SHC = 160p/28 p = 5.7Adjusted to say 4 Value of business = GHC2, 030,000 X 4 = GHC8,120,000

Dividend Growth method

| Value of business | = | Do(1+g)/(DY-g) |
|---|-------------|----------------|
| Do = GHS0.20 X 8,000,000 DY = that of listed entity (ap) $= 24p/160p = 15%$ Adjusted to say 20% Value of business = | | |
| = | GHC1,680,00 | 0/0.15 |
| = | GHC11,200,0 | 00 |

| Summary | GHC |
|-----------------|------------|
| PE Ratio | 8,120,000 |
| Dividend growth | 11,200,000 |
| Net Assets | 15,230,000 |

b) **Comment on relative merits of the methods used, and their suitability**

Asset Based Valuation

Valuing a company on the basis of its asset values alone is rarely appropriate if it is to be sold on a going concern basis. Exceptions would include property investment companies and investment trusts, the market values of the assets of which will bear a close relationship to their earning capacities.

Knowledge of the Net Asset Value (NAV) of a company will, however, be important as a floor value for a company in financial difficulties or subject to a takeover bid. Shareholders will be reluctant to sell for less than the net asset value even if future prospects are poor.

P/E Ratio Valuation

The P/E ratio measures the multiple of the current year's earnings that is reflected in the market price of a share. It is thus a method that reflects the earnings potential of a company from a market point of view. Provided the market is efficient, it is likely to give the most meaningful basis for valuation.

One of the first things to say is that the market price of a share at any point in time is determined by supply and demand forces prevalent during small transactions, and will be dependent upon a lot of factors in addition to a realistic appraisal of future prospects. A downturn in the market, economies and political changes can all affect the day-to-day price of a share, and thus its prevailing P/E ratio. It is not known whether the share price given for SHC was taken on one particular day, or was some sort of average over a period. The latter would perhaps give a sounder basis from which to compute a applicable P/E ratio.

Even if the P/E ratio of SHC can be taken to be indicative of its true worth, using it as a basis to value a smaller, unquoted company in the same industry can be problematic.

The status and marketability of shares in a quoted company have tangible effect on value but these are difficult to measure.

The P/E ratio will also be affected by growth prospects – the higher the growth expected, the higher the ratio. The growth rate incorporated by the shareholders of SHC is probably based on a more rational approach than that used by QHL.

In the valuation in (a) a crude adjustment has been made to SHC's P/E ratio to arrive at a ratio to use to value QHL's earnings. This can result in a very inaccurate result if account has not been taken of all the differences involved.

Dividend Based Valuation

The dividend valuation model (DVM) is a cash flow based approach, which valued the dividends that the shareholders expect to receive from the company by discounting them at their required rate of return. It is perhaps more appropriate for valuing a non-controlling

shareholding where the holder has no influence over the level of dividends to be paid than for valuing a whole company, where the total cash flows will be of greater relevance.

The practical problems with the dividend valuation model lie mainly in its assumptions. Even accepting that the required 'perfect capital market' assumptions may be satisfied to some extent, in reality, the formula used in (a) assumes constant growth rates and constant required rates of return in perpetuity.

Determination of an appropriate dividend yield/cost of equity is particularly difficult for an unquoted company, and the use of an 'equivalent' quoted company's data carries the same drawbacks as discussed above. Similar problems arise in estimating future growth rates and the results from the model are highly sensitive to changes in both these inputs.

It is also highly dependent upon the current year's dividend being a representative base from which to start.

The dividend valuation model valuation provided in (a) results in a higher valuation than that under the P/E ratio approach. Reasons for this may be:

- The share price of SHC may be currently depressed below its normal level, resulting in an inappropriate low P/E ratio.
- The adjustment to get to an appropriate P/E ratio for QHL may have been too harsh, particularly in light of its apparently better growth prospects.
- The dividend yield/cost of equity used in the dividend valuation model was that of SHC. The validity of this will largely depend upon the relative levels of risk of the two companies. Although they both operate the same type of business, the fact that SHC sells its material externally means it is perhaps less reliant on a fixed customer base.
- Even if business risks and gearing risk may be thought to be comparable, a prospective buyer of QHL may consider investment in a younger, unquoted company to carry greater personal risk. His required return may thus be higher than that envisaged in the dividend valuation model, reducing the valuation.

Data Distribution Ltd

Assessment

Profitability

The company's gross profit margin is strengthening due to the South Korean phone, which can be purchased at very competitive prices and still be sold at half the price of competitive products. This can be further illustrated by comparing the 207% increase in revenue with a 285% increase in gross profit.

Similarly, overheads have only increased by 199%, even including one-off relocation expenses. Therefore, costs are being controlled despite the expansion, and the net margin is also strengthening. However, the overheads do not include all charges for advertising (see below). If these were included net profit would clearly fall. In addition, the company's warranty provisions do not appear to be calculated correctly and the expense is probably understated.

Return on capital employed has improved on the previous year, as the company has turned from a loss-making position to a profit. However, ROCE may be misleading as there is some doubt as to the suitability of capitalizing advertising expenditure and/or the cost of distribution rights. If these were charged as expenses, the company would continue to be in a loss-making position.

The improving profitability of the company is very reliant on the continued success of the South Korean phone, and in rapidly changing industry, this cannot be guaranteed.

Liquidity

Liquidity has deteriorated in the period, as evidence by both the current and quick ratios. The company has insufficient current assets from which to meet its current liabilities as they fall due.

This is coupled with very clear signs of overtrading, whereby the inventory turnover ratio has increased dramatically on the previous year. The company is holding very low levels of inventory compared to its increased levels of revenue, which may result in stock-outs and loss of goodwill. This low level of inventory appears to be caused by insufficient funds to finance the purchase of inventory. The company must raise further long-term finance if serious liquidity problems are to be avoided.

Solvency

The company is highly geared. Moreover, the gearing ratio in the appendix does not include the excessive overdraft included in current liabilities. Hence, actual gearing is even higher. Similarly, interest cover at 1.6 times is poor.

The company must raise more funds to survive, particularly if further expansion is to continue. However, lenders will see Data Distributors ltd as a high risk investment and will therefore expect a high return.

| Appendix: Accounting Ratios | Year ended 31 August 2012 2011 | | |
|--|--|---|--|
| Profitability Return on capital employed Operating Profit | | | |
| = Total Assets - Current Liabilities | 510 = 7.9% 6,425 | $\frac{(98)}{3,700} = (2.6)\%$ | |
| Gross profit margin <u>Gross Profit</u> = Revenue | $\frac{3.600}{16,000} = 22.5\%$ | $\underline{936} = 18.0\%$ 5,200 | |
| Efficiency Asset turnover | | | |
| <u>Revenue</u> = Total Assets - Current Liabilities Inventory turnover | $\frac{16,000}{6,425}$ = 2.5 times | $\frac{5,200}{3,700} = 1.4$ times | |
| = <u>Cost of Sales</u> Inventories | $\frac{12,400}{788}$ = 15.9 times | $\frac{4,264}{520} = 8.2$ times | |
| Receivables collection period <u>Receivables</u> x 365 = Credit Sales Payables payment period | $\frac{814}{16,000 \text{ x } 30\%} \text{ x } 365 \text{ x } = 62 \text{ days}$ | $\frac{215}{5,200 \text{ x } 30\%}$ x 365 = 50 days | |
| $\frac{Payables}{Cost of sales} \times 365$ | $\frac{2,734}{12,400}$ x 365 = 80 days | $678_{4,264}$ x 365 = 58 days | |
| Liquidity Current Ratio | | | |
| <u>Current Assets</u> = Current Liabilities Quick ratio | $\frac{1,842}{3,709} = 0.50$ | $\frac{1,135}{828} = 1.37$ | |
| = Current Assets - Inventory Current Liabilities | $\frac{1,842 - 778}{3,709} = 0.29$ | $\frac{1,135-520}{828} = 0.74$ | |
| Solvency Debt/equity ratio Long-term Debt = Capital and Reserves | $\frac{2,084}{4,013} = 0.52$ | | |
| Interest cover <u>Operating Profit</u> = Interest | $\frac{510}{320} = 1.6$ | | |