The following is information concerning ABC Company and XYZ Company.

	ABC Company	XYZ Company
CURRENT ASSETS:		
Cash	22,600	42,800
Accounts and Notes Receivable	92,500	101,100
Merchandise Inventory	88,800	120,000
Prepaid Expenses	11,800	13,400
CAPITAL ASSETS:		
Pledged Plant & Equipment (Net)	178,500	255,000
	394,200	532,300
CURRENT LIABILITIES:		
Accounts Payable	65,000	82,300
Short Term Notes	20,000	24,000
LONG TERM LIABILITIES:		,
Long Term Notes (Secured)	90,000	101,000
EQUITY:		
Common Shares	136,500	159,000
Retained Earnings	82,700	166,000
	394,200	532,300
Number of Common Shares	13,575	15,775
Data from Current Year Income Statement:		
Sales	527,508	744,000
Cost of Goods Sold	388,500	529,000
Interest Expense	10,600	13,200
Income Tax Expense	8,600	15,100
Net Income	48,800	67,200
	-,	,
Beginning of Year and Other Data:		
Accounts Receivable	73,500	75,300
Merchandise Inventory	106,300	84,500
Total Assets	385,700	450,000
Common Shares	136,500	159,000
Retained Earnings	47,550	114,700
Market Value per Share	29	35
Dividend per Share	1.00	1.00

Calculate the following ratios and underline the company's ratio that you believe is the best:

Working Paper:

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Current Ratio = Current Assets / Current Liabilities
      ABC Company =
      XYZ Company =
Quick Ratio = Quick Assets / Current Liabilities
      ABC Company =
      XYZ Company =
Accounts Receivable Turnover = Sales / Average Receivables
      ABC Company =
      XYZ Company =
Merchandise Inventory Turnover = Cost of Goods / Average Inventory
      ABC Company =
      XYZ Company =
Days Sales Uncollected = Accounts Receivable / Sales X 365
      ABC Company =
      XYZ Company =
Days Stock in Inventory = Inventory / Cost of Goods X 365
      ABC Company =
      XYZ Company =
Debt Ratio = Total Liabilities / Total Assets X 100
      ABC Company =
      XYZ Company =
Equity Ratio = Total Equity / Total Assets X 100
      ABC Company =
      XYZ Company =
Pledged Assets to Secured Liabilities = Pledged Assets / Secured Liabilities
      ABC Company =
      XYZ Company =
Times Interest Earned = (Net Income + Income Tax + Interest Expense) / Interest Expense
      ABC Company =
      XYZ Company =
Gross Margin = (Sales - Cost \ of \ Goods) / Sales \ X \ 100
      ABC Company =
      XYZ Company =
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Profit Margin = Net Income / Sales X 100
      ABC Company =
      XYZ Company =
Total Asset Turnover = Sales / Average Total Assets
      ABC Company =
      XYZ Company =
Return on Total Assets = Net Income / Average Total Assets X 100
      ABC Company =
      XYZ Company =
Return on Equity = Net Income / Average Shareholders Equity X 100
      ABC Company =
      XYZ Company =
Book Value per Share = Common Share Dollars / Number of Common Shares
      ABC Company =
      XYZ Company =
Earnings per Share = Net Income / Number of Shares
      ABC Company =
      XYZ Company =
Price Earnings Ratio = Market Value per Share / Earnings per Share
      ABC Company =
      XYZ Company =
Dividend Yield = Dividend per Share / Market Value per Share X 100
      ABC Company =
      XYZ Company =
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Answer:

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Current Ratio = Current Assets / Current Liabilities
       ABC Company = (22,600 + 92,500 + 88,800 + 11,800) / (65,000 + 20,000) = 2.54:1
       XYZ Company = (42,800 + 101,100 + 120,000 + 13,400) / (82,300 + 24,000) = 2.61 : 1
Quick Ratio = Quick Assets / Current Liabilities
       ABC Company = (22,600 + 92,500) / (65,000 + 20,000) = 1.35 : 1
       XYZ Company = (42,800 + 101,100) / (82,300 + 24,000) = 1.35 : 1
Accounts Receivable Turnover = Sales / Average Receivables
       ABC Company = 527,508 / [(73,500 + 92,500) / 2] = 6.36 Times
       XYZ Company = 744,000 / [(75,300 + 101,100) / 2] = 8.44 Times
Merchandise Inventory Turnover = Cost of Goods / Average Inventory
       ABC Company = 388,500 / [(106,300 + 88,800) / 2] = 3.98 Times
       XYZ Company = 529,000 / [(84,500 + 120,000) / 2] = 5.17 Times
Days Sales Uncollected = Accounts Receivable / Sales X 365
       ABC Company = 92,500 / 527,508 \times 365 = 64.00 \text{ Days}
       XYZ Company = 101,100 / 744,000 X 365 = 49.60 Days
Days Stock in Inventory = Inventory / Cost of Goods X 365
       ABC Company = 88,800 / 388,500 \times 365 = 83.43  Days
       XYZ Company = 120,000 / 529,000 X 365 = 82.80 Days
Debt Ratio = Total Liabilities / Total Assets X 100
       ABC Company = (65,000 + 20,000 + 90,000) / 394,200 \times 100 = 44.39\%
       XYZ Company = (82,300 + 24,000 + 101,000) / 532,300 \times 100 = 38.94\%
Equity Ratio = Total Equity / Total Assets X 100
       ABC Company = (136,500 + 82,700) / 394,200 \times 100 = 55.61\%
       XYZ Company = (159,000 + 166,000) / 532,300 \times 100 = 61.06\%
Pledged Assets to Secured Liabilities = Pledged Assets / Secured Liabilities
       ABC Company = 178.500 / 90.000 = 1.98 : 1
       XYZ Company = 255,000 / 101,000 = 2.52 : 1
Times Interest Earned = (Net Income + Income Tax + Interest Expense) / Interest Expense
       ABC Company = (48,800 + 8,600 + 10,600) / 10,600 = 6.42 Times
       XYZ Company = (67,200 + 15,100 + 13,200) / 13,200 = 7.23 Times
Gross Margin = (Sales - Cost \ of \ Goods) / Sales \ X \ 100
       ABC Company = (527,508 - 388,500) / 527,508 \times 100 = 26.35\%
       XYZ Company = (744,000 - 529,000) / 744,000 \times 100 = 28.90\%
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Profit Margin = Net Income / Sales X 100
       ABC Company = 48,800 / 527,508 \times 100 = 9.25\%
       XYZ Company = 67,200 / 744,000 X 100 = 9.03\%
Total Asset Turnover = Sales / Average Total Assets
       ABC Company = 527,508 / [(385,700 + 394,200) / 2] = 1.35Times
       XYZ Company = 744,000 / [(450,000 + 532,300) / 2] = 1.51 Times
Return on Total Assets = Net Income / Average Total Assets X 100
       ABC Company = 48,800 / [(385,700 + 394,200) / 2] \times 100 = 12.51\%
       XYZ Company = 67,200 / [(450,000 + 532,300) / 2] \times 100 = 13.68\%
Return on Equity = Net Income / Average Shareholders Equity X 100
       ABC Company = 48,800 / \{[(136,500 + 47,550) + (136,500 + 82,700)] / 2\} \times 100 =
       XYZ Company = 67,200 / \{ [(159,000 + 114,700) + (159,000 + 166,000)] / 2 \} X 100 =
       22.45%
Book Value per Share = Common Share Dollars / Number of Common Shares
       ABC Company = 136,500 / 13,575 = $10.06
                                                        (Neither one is
       XYZ Company = 159,000 / 15,775 = $10.08
                                                        Good or Bad.)
Earnings per Share = Net Income / Number of Shares
       ABC Company = 48,800 / 13,575 = $3.59
       XYZ Company = 67,200 / 15,775 = $4.26
Price Earnings Ratio = Market Value per Share / Earnings per Share
       ABC Company = 29 / 3.59 = 8.08 : 1
       XYZ Company = 35 / 4.26 = 8.22 : 1
Dividend Yield = Dividend per Share / Market Value per Share X 100
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ABC Company = $1.00 / 29 \times 100 = 3.45\%$ XYZ Company = $1.00 / 35 \times 100 = 2.86\%$