Given BALANCE SHEET

	current (1)	prior (0)
Cash	4,200	4,000
Bonds and Debentures	41,000	42,400
Common Shares	2,500	2,000
Real Estate	10,700	11,700
Agents and Brokers Receivables	400	700
Unearned Premiums Recoverable	9,500	10,400
Unpaid Claims and Adjustment Expenses Recoverable	?	?
Total Assets	88,100	100,700
Gross Unpaid Claims and Adjustment Expenses	36,200	37,200
Equity	27.100	27.100

INCOME STATEMENT

	current (1)	prior (0)
Net Premiums Written	41,000	39,900
Decrease in Net Unearned Premiums	-1,100	800
Net Claims and Adjustment Expenses	34,200	30,700
Total Acquisition Expenses	4,200	4,700
General Expenses	3,000	2,800
Investment Income	5,900	3,500
Realized Gains	-800	500
Investment Expenses	500	400
Income Taxes – Total	2,100	2,500

ALSO:

Net Leverage Ratio (at end of current year) :	310%	n/a

Calculate (i) InvYld (Investment Yield)

- (ii) ROE
- (iii) ROA
- (iv) Net U/W Leverage Ratio

Assesment Comment on the financial health of the company based on the quantities calculated above.

InvYld	=	2	Х	NII	/ (InvAss0	+	InvAss1	-	NII)
	=	2	х	4,600	/ (60,100	+	58,400	-	4,600)
InvYld	=	8.08%	<== final o	answer to (i) - use ju	dgment to as	sess financia	al health			
	NII	=	InvInc	+	Realized	d Gains/Losse	S	-	InvExps		
	NII	=	5,900	+	-800	-	500				
		=	<u>4,600</u>								
	InvAss	=	cash	+	bonds &	& debentures	+	commons sh	nares	+	real estate
	InvAss ₀	=	4,000	+	42,40	0 +	2,000	+	11,700	=	<u>60,100</u>
	InvAss ₁	=	4,200	+	41,00	0 +	2,500	+	10,700	=	<u>58,400</u>
ROE	=	(NI.preTax	-	Tot. Ta	ax)	/	equity			
	=	(3,100	-	2,100))	/	27,100			
ROE	=	3.69%	<== final o	answer to (ii) - comp	are to accept	able minimu	ım of <u>5.4</u> %	BAD		
	NI.pretax	=	NEP	-	net.CA	λE -	TotAcq	-	GenExps	+	NII
		=	39,900	-	34,20	0 -	4,200	-	3,000	+	4,600
		=	<u>3,100</u>								
	NEP	=	NWP	-	change	(UEP)					
		=	NWP	-	[current(U	EP)	-	prior(UEP)]	
		=	41,000	-	[1,100]				
		=	<u>39,900</u>								
ROA	=	(NI.preTax	-	Tot. Ta	ax)	/	(2-yr averag	ge of assets)		
	=	(3,100	-	2,100)	1	average (88,100	,	100,700
	=	1.06%	<== final o	answer to (iii) - com	pare to accept	table minim	um of <u>2.6</u> %	BAD		
Net U/W	Leverage Rat	tio	=	NWP	/	eautiv					
			=	41.000	/	27.100					
			=	151%	<== fin	al answer to	(iv) - compa	re to acceptab	le MAXIMUM	of <u>300</u> %	
					- 1						GOOD
Calculatio	on of UCAE:	We're give	n the value	for Net Lev	erage Ra	tio, so let's wr	rite down the	e formula and	see where it le	ads	

Net Le	verage Ratio	=	(NWP	+	Net.Liabs)	/	equity	
	310%	=	(41,000	+	Net.Liabs)	/	27,100	
==>	Net.Labs	=	43,010	<== Net.Lia	ıbs was t	the only unknow	vn so I dea	cided to solve	for it	

Net.Liabs	=	Tot.Liabs	-	UCAE recoverable	-	UEP recoverable	
43,010	=	61,000	-	UCAE recoverable	-	9,500	
UCAE recoverable	=	8,490	<== final	answer to UCAE recov	erable		

Tot.Liabs	=	Tot.Assets	-	equity	=	88,100	-	27,100	=	<u>61,000</u>
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Given BALANCE SHEET

	current (1)	prior (0)
Cash	4,400	3,500
Bonds and Debentures	31,400	36,500
Common Shares	2,100	1,600
Real Estate	9,800	13,200
Agents and Brokers Receivables	400	600
Unearned Premiums Recoverable	8,100	10,700
Unpaid Claims and Adjustment Expenses Recoverable	?	?
Total Assets	96,100	85,500
Gross Unpaid Claims and Adjustment Expenses	35,600	32,500
Equity	25,400	23.200

INCOME STATEMENT

	current (1)	prior (0)
Net Premiums Written	38,000	39,000
Decrease in Net Unearned Premiums	1,000	900
Net Claims and Adjustment Expenses	28,100	30,100
Total Acquisition Expenses	4,600	3,900
General Expenses	2,400	2,700
Investment Income	5,100	3,200
Realized Gains	900	400
Investment Expenses	400	400
Income Taxes – Total	2,300	2,300

ALSO:

Net Leverage Ratio (at end of current year) :	400%	n/a

Calculate (i) InvYld (Investment Yield)

- (ii) ROE
- (iii) ROA
- (iv) Net U/W Leverage Ratio

Assesment Comment on the financial health of the company based on the quantities calculated above.

InvYld	=	2	х	NII	/ (InvAss0	+	InvAss1	-	NII)
	=	2	X	5,600	/ (54,800	+	47,700	-	5,600)
InvYld	=	11.56%	<== final a	answer to (i) - use judg	ment to assess	s financia	l health			
	NII	=	InvInc	+	Realized G	Gains/Losses		-	InvExps		
	NII	=	5,100	+	900	-	400				
		=	<u>5,600</u>								
	InvAss	=	cash	+	bonds & c	lebentures	+	commons sha	ares	+	real estate
	InvAss ₀	=	3,500	+	36,500	+	1,600	+	13,200	=	<u>54,800</u>
	InvAss ₁	=	4,400	+	31,400	+	2,100	+	9,800	=	<u>47,700</u>
ROE	=	(NI.preTax	-	Tot. Tax)	/	equity			
	=	(9,500	-	2,300)	/	25,400			
ROE	=	28.35%	<== final a	answer to (ii) - compar	e to acceptabl	e minimu	m of <u>5.4</u> %	GOOD		
	NI.pretax	(=	NEP	-	net.CAE	-	TotAcq	-	GenExps	+	NII
		=	39,000	-	28,100	-	4,600	-	2,400	+	5,600
		=	<u>9,500</u>								
	NEP	=	NWP	-	change(U	EP)					
		=	NWP	-	[current(UEP)		-	prior(UEP)]	
		=	38,000	-	[-1,000]				
		=	<u>39,000</u>								
		 ,									
ROA	=	(NI.pre lax	-	lot. lax)	/	(2-yr average	e of assets)		05 500
	=	7.93%	9,500 <== final a	answer to (2,300 iii) - compa) re to acceptabl	le minim	average (um of <u>2.6</u> %	GOOD	,	85,500
Net U/W L	.everage Ra	itio	=	NWP	/	equtiy					
			=	38,000	/	25,400					
			=	150%	<== final	answer to (iv)	- compai	re to acceptabl	e MAXIMUM	of <u>300</u> %	
											GOOD

Net Lev	verage Ratio	=	(NWP	+	Net.Liabs)	/	equity	
	400%	=	(38,000	+	Net.Liabs)	/	25,400	
==>	Net.Labs	=	<u>63,600</u>	<== Net.Lic	abs was t	the only unknow	vn so I de	cided to solve	for it	

Net.Liabs	=	Tot.Liabs	-	UCAE recoverable	-	UEP recoverable	
63,600	=	70,700	-	UCAE recoverable	-	8,100	
UCAE recoverable	=	-1,000	<== fina	l answer to UCAE recove	erable		

Tot.Liabs	=	Tot.Assets	-	equity	=	96,100	-	25,400	=	<u>70,700</u>
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Given BALANCE SHEET

	current (1)	prior (0)
Cash	6,300	4,700
Bonds and Debentures	57,500	56,900
Common Shares	3,800	2,600
Real Estate	16,600	19,200
Agents and Brokers Receivables	700	1,000
Unearned Premiums Recoverable	13,300	17,400
Unpaid Claims and Adjustment Expenses Recoverable	?	?
Total Assets	128,700	145,100
Gross Unpaid Claims and Adjustment Expenses	48,000	46,600
Equity	41.100	36.200

INCOME STATEMENT

	current (1)	prior (0)
Net Premiums Written	58,000	63,800
Decrease in Net Unearned Premiums	-1,600	1,400
Net Claims and Adjustment Expenses	49,400	42,600
Total Acquisition Expenses	6,500	6,500
General Expenses	4,300	3,900
Investment Income	8,500	5,600
Realized Gains	1,400	700
Investment Expenses	700	500
Income Taxes – Total	3,300	3,600

ALSO:

Net Leverage Ratio (at end of current year) :	210%	n/a

Calculate (i) InvYld (Investment Yield)

- (ii) ROE
- (iii) ROA
- (iv) Net U/W Leverage Ratio

Assesment Comment on the financial health of the company based on the quantities calculated above.

InvYld	=	2	х	NII	/	(InvAss0	+	InvAss1	-	NII)
	=	2	X	9,200	/	(83,400	+	84,200	-	9,200)
InvYld	=	11.62%	<== final	answer to ('i) - use ju	udgn	nent to assess	s financio	al health			
	NII	=	Invinc	+	Realize	ed Ga	ains/Losses		-	InvExps		
	NII	=	8,500	+	1,40	0	-	700				
		=	<u>9,200</u>									
	InvAss	=	cash	+	bonds	& de	ebentures	+	commons sha	ares	+	real estate
	InvAss ₀	=	4,700	+	56,90	00	+	2,600	+	19,200	=	<u>83,400</u>
	$InvAss_1$	=	6,300	+	57,50	00	+	3,800	+	16,600	=	<u>84,200</u>
ROE	=	(NI.preTax	-	Tot. T	Гах)	/	equity			
	=	(5,400	-	3,30	0)	/	41,100			
ROE	=	5.11%	<== final	answer to ('ii) - com	pare	to acceptable	e minimı	ım of <u>5.4</u> %	BAD		
	NI.pretax	(=	NEP	-	net.C	AE	-	TotAcq	-	GenExps	+	NII
		=	56,400	-	49,40	00	-	6,500	-	4,300	+	9,200
		=	<u>5,400</u>									
	NEP	=	NWP	-	change	e(UE	P)					
		=	NWP	-	[current(UEP)		-	prior(UEP)]	
		=	58,000	-	[1,600]				
		=	<u>56,400</u>									
ROA	=	(NI.preTax	-	Tot. T	Гах)	/	(2-yr average	e of assets)		
	=	(5,400	-	3,30	0)	/	average (128,700	,	145,100
	=	1.53%	<== final	answer to ('iii) - com	npare	e to acceptabl	le minim	um of <u>2.6</u> %	BAD		
Net U/W I	Leverage Ra	itio	=	NWP	/		equtiy					
			=	58,000	/		41,100					
			=	141%	<== fi	nal c	answer to (iv)	- compa	re to acceptabl	e MAXIMUM	of <u>300</u> %	
					_							GOOD
Coloulatio	-	Malea etter	n the velue	for Not I		ati a	an latio write	dawa +-	o formula and		ada	
calculatio	IT OF UCAE:	were give	n the value	jor net Lev	eruye Ro	лио,	so let s write	uown th	e jormula dha s	see where it le	uus	

Net Le	verage Ratio	=	(NWP	+	Net.Liabs)	/	equity	
	210%	=	(58,000	+	Net.Liabs)	/	41,100	
==>	Net.Labs	=	<u>28,310</u>	<== Net.Lia	bs was t	the only unknow	vn so I dea	cided to solve	e for it	

Net.Liabs	=	Tot.Liabs	-	UCAE recoverable	-	UEP recoverable	
28,310	=	87,600	-	UCAE recoverable	-	13,300	
UCAE recoverable	=	45,990	<== fina	answer to UCAE recov	erable		

Tot.Liabs	=	Tot.Assets	-	equity	=	128,700	-	41,100	=	<u>87,600</u>
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Given BALANCE SHEET

	current (1)	prior (0)
Cash	7,300	6,200
Bonds and Debentures	61,200	73,700
Common Shares	4,300	3,200
Real Estate	19,300	19,900
Agents and Brokers Receivables	700	1,300
Unearned Premiums Recoverable	15,000	17,200
Unpaid Claims and Adjustment Expenses Recoverable	?	?
Total Assets	176,900	142,000
Gross Unpaid Claims and Adjustment Expenses	64,900	64,600
Equity	43.100	46.300

INCOME STATEMENT

	current (1)	prior (0)
Net Premiums Written	68,000	74,100
Decrease in Net Unearned Premiums	2,000	1,500
Net Claims and Adjustment Expenses	49,200	45,500
Total Acquisition Expenses	7,800	7,200
General Expenses	5,000	4,700
Investment Income	8,700	5,600
Realized Gains	-1,600	900
Investment Expenses	900	600
Income Taxes – Total	3,500	4,200

ALSO:

Net Leverage Ratio (at end of current year) :	240%	n/a

Calculate (i) InvYld (Investment Yield)

- (ii) ROE
- (iii) ROA
- (iv) Net U/W Leverage Ratio

Assesment Comment on the financial health of the company based on the quantities calculated above.

		2	Х	NII	/ (InvAss0	+	InvAss1	-	NII)
	=	2	x	6,200	/ (103,000	+	92,100	-	6,200)
InvYld	=	6.56%	<pre>% <== final answer to (i) - use judgment to assess financial health</pre>								
	NII =		InvInc +		Realized G	Gains/Losses		-	InvExps		
	NII	=	8,700	+	-1,600	-	900				
		=	<u>6,200</u>								
	InvAss =		cash	+	bonds & c	lebentures	+	commons shares		+	real estate
	InvAss ₀	=	6,200	+	73,700	+	3,200	+	19,900	=	<u>103,000</u>
	$InvAss_1$	=	7,300	+	61,200	+	4,300	+	19,300	=	<u>92,100</u>
ROE	=	(NI.preTax	-	Tot. Tax)	/	equity			
	=	(14,200	-	3,500)	/	43,100			
ROE	=	24.83%	<== final	answer to (ii) - compar	re to acceptab	le minimu	ım of <u>5.4</u> %	GOOD		
	NI.pretax	=	NEP	-	net.CAE	-	TotAcq	-	GenExps	+	NII
	-	=	70,000	-	49,200	-	7,800	-	5,000	+	6,200
		=	<u>14,200</u>								
	NEP	=	NWP	-	change(U	EP)					
		=	NWP	-	[current(UEP	?)	-	prior(UEP)]	
		=	68,000	-	[-2,000]				
		=	<u>70,000</u>								
KUA	-	(14 200	-	2 E 00)	/	(2-yr average	176.000		142.000
	=	6.71%	<== <i>final</i>	answer to (iii) - compa) re to acceptal	ן ble minimu	um of <u>2.6</u> %	GOOD	,	142,000
Net U/W L	everage Rat	io	=	NWP	/	equtiy					
			=	68,000	/	43,100					
			=	158%	<== final	answer to (iv) - compai	re to acceptabl	le MAXIMUM	of <u>300</u> %	GOOD

Net Le	verage Ratio	=	(NWP	+	Net.Liabs)	/	equity	
	240%	=	(68,000	+	Net.Liabs)	/	43,100	
==>	Net.Labs	=	<u>35,440</u>	<== Net.Liabs was the only unknown so I decided to solve for it						

Net.Liabs	et.Liabs = Tot.Liabs		- UCAE recoverable		-	UEP recoverable	
35,440	=	133,800	-	UCAE recoverable	-	15,000	
UCAE recoverable	=	83,360	<== final	answer to UCAE recov	erable		

Tot.Liabs	=	Tot.Assets	-	equity	=	176,900	-	43,100	=	<u>133,800</u>
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