Reading: Odomirok.19-RBC

Model: n/a

**Problem Type:** Calculate RBC charges R<sub>1</sub> and R<sub>2</sub>

## Given Fixed Income Assets

		amount issued by		RBC
asset	amount	TOP 10 issuer	# issuers	factor
cash & equivalents	1,890	0	0	0.0030
mortgage bonds	3,500	0	28	0.0500
U.S. government	53,900	10,800	51	0.0000
class 01 unaffiliated bonds	303,400	121,400	300	0.0030
class 02 unaffiliated bonds	0	0	0	0.0100
class 03 unaffiliated bonds	37,900	30,300	91	0.0200
class 04 unaffiliated bonds	3,000	1,800	40	0.0450
class 05 unaffiliated bonds	2,400	1,900	23	0.1000
class 06 unaffiliated bonds	1,000	400	13	0.3000

# **Equity Assets**

	amount issued by			RBC
asset	amount	TOP 10 issuer	# issuers	factor
other admitted unaff. common Stck.	0	0		0.1500
Schedule BA assets	7,600	0		0.2000
real estate	2,800	1,100		0.1000
class 01 unaffiliated Prfd. Stck.	240	190		0.0030
class 02 unaffiliated Prfd. Stck.	40	0		0.0100
class 03 unaffiliated Prfd. Stck.	250	100		0.0200
class 04 unaffiliated Prfd. Stck.	430	260		0.0450
class 05 unaffiliated Prfd. Stck.	330	70		0.1000
class 06 unaffiliated Prfd. Stck.	110	0		0.3000

Items highlighted in red are NOT subject to the ACC or BSF.

Hint

 $R_1 = 3,819$ 

 $R_2 = 2,022$ 

$R_1$	=	basic	+	BSC	+	ACC
	=	2,524	+	418	+	877
	=	3,819	<== final	answer for R	1	

basic = SUM [ (asset <u>values</u> subject to basic charge) x (RBC factor) ]

= 2,524

BSC = BSF x (total R1 charges for bonds subject to BSF charge)

= 0.178 x 2,343

= <u>418</u>

## BSF calc:

:	# issuers	# issuers	weights	
	= 467	(1)	(2)	(3)=(2)x(1)
	first 50	50	2.5	125.0
	next 50	50	1.3	65.0
	next 300	300	1.0	300.0
	> 400	67	0.9	60.3
	total	467		550.3

ACC = SUM [ (asset <u>values</u> subject to ACC for TOP 10 issuers) x (RBC factor) ] = <u>877</u>

R <sub>2</sub>	=	basic	+	ACC	
	=	1,891	+	131	
	=	2,022	$\leftarrow$ final answer for R $_2$		

basic = SUM [ (asset <u>values</u> subject to basic charge) x (RBC factor) ]

= <u>1,891</u>

ACC = SUM [ (asset <u>values</u> subject to ACC for TOP 10 issuers) x (RBC factor) ]

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Reading: Odomirok.19-RBC

Model: n/a

**Problem Type:** Calculate RBC charges R<sub>1</sub> and R<sub>2</sub>

## Given Fixed Income Assets

	amount issued by			RBC
asset	amount	TOP 10 issuer	# issuers	factor
cash & equivalents	1,620	0	0	0.0030
mortgage bonds	2,900	600	43	0.0500
U.S. government	50,500	0	80	0.0000
class 01 unaffiliated bonds	375,000	225,000	380	0.0030
class 02 unaffiliated bonds	43,700	35,000	190	0.0100
class 03 unaffiliated bonds	31,300	6,300	116	0.0200
class 04 unaffiliated bonds	0	0	0	0.0450
class 05 unaffiliated bonds	2,100	800	37	0.1000
class 06 unaffiliated bonds	1,000	800	12	0.3000

# **Equity Assets**

	amount issued by			RBC
asset	amount	TOP 10 issuer	# issuers	factor
other admitted unaff. common Stck.	0	0		0.1500
Schedule BA assets	5,800	1,200		0.2000
real estate	2,500	500		0.1000
class 01 unaffiliated Prfd. Stck.	160	30		0.0030
class 02 unaffiliated Prfd. Stck.	30	10		0.0100
class 03 unaffiliated Prfd. Stck.	180	0		0.0200
class 04 unaffiliated Prfd. Stck.	440	0		0.0450
class 05 unaffiliated Prfd. Stck.	320	0		0.1000
class 06 unaffiliated Prfd. Stck.	100	80		0.3000

Items highlighted in red are NOT subject to the ACC or BSF.

Hint

R<sub>1</sub> = 3,641

R<sub>2</sub> = 1,786



basic = SUM [ (asset <u>values</u> subject to basic charge) x (RBC factor) ]

= 2,848

BSC = BSF x (total R1 <u>charges</u> for bonds subject to BSF charge)

= 0.077 x 2,698

= <u>207</u>

BSF calc:

:	# issuers	# issuers	weights	
	= 735	(1)	(2)	(3)=(2)x(1)
	first 50	50	2.5	125.0
	next 50	50	1.3	65.0
	next 300	300	1.0	300.0
	> 400	335	0.9	301.5
	total	735		791.5

ACC = SUM [ (asset <u>values</u> subject to ACC for TOP 10 issuers) x (RBC factor) ] = <u>586</u>

R<sub>2</sub> = basic + ACC = 1,496 + 290 = 1,786 <== final answer for R<sub>2</sub>

basic = SUM [ (asset <u>values</u> subject to basic charge) x (RBC factor) ]

= <u>1,496</u>

ACC = SUM [ (asset <u>values</u> subject to ACC for TOP 10 issuers) x (RBC factor) ]

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