21. (2.75 points)

Given the following:

Rep	orted Clain	ns (\$000) a	s of (month	s)
Accident Year	12	24	36	48
2015	1,100	1,650	1,675	1,680
2016	1,250	1,680	1,750	
2017	1,200	1,800		
2018	1,500			

Rep	orted Clair	n Counts a	s of (month	s)
Accident Year	12	24	36	48
2015	108	115	115	115
2016	112	120	120	
2017	104	110		
2018	106			

	Р	aid Claims	(\$000) as o	of (months)	
Ac	cident				
)	/ear	12	24	36	48
2	2015	560	1,325	1,650	1,680
2	2016	650	1,350	1,720	
2	2017	615	1,305		
2	2018	625			

Cl	osed Claim	Counts as	of (months)
Accident				
Year	12	24	36	48
2015	78	106	114	115
2016	80	្ន111	118	
2017	75	99		
2018	82			

ĺ	5.0% Annual severity trend
ı	3.0 / Allitual Severity tieriu

Exposures have remained constant throughout all accident years.

Calculate unpaid claims for accident year 2018 using the reported Berquist-Sherman technique.

FALL 2019 EXAM 5 – SAMPLE ANSWERS AND EXAMINER'S REPORT

QUESTION 21						
TOTAL POINT VALUE: 2.7	'5		LEARNING	6 OBJ	ECTIVE(S): B5	
SAMPLE ANSWERS			•			
	Case out	standing				
Accident Year	12	24	36		48	
2015	540	325	25		0	
2016	600	330	30			
2017	585	495				
2018	875					
	Open clai	m counts				
Accident Year	12	24	36		48	
2015	30	9	1		0	
2016	32	9	2			
2017	29	11				
2018	24					
	Average	case OS				
Accident Year	12	24	36		48	
2015	18.0	36.1	25.0			
2016	18.8	36.7	15.0			
2017	20.2	45.0				
2018	36.5					
Detre	ended avera	ge case OS				
Accident Year	12	24	36	48		
2015	31.5	40.8	14.3	0.0		
2016	33.1	42.9	15.0			
2017	34.7	45.0				
2018	36.5					
	case OS = de		-			
Accident Year	12	24	36	48		
2015	945	367	14	0		
2016	1,058	386	30			
2017	1,007	495				
2018	875					

FALL 2019 EXAM 5 – SAMPLE ANSWERS AND EXAMINER'S REPORT

	justed incurred		- adj OS	
Accident Ye		24	36	48
2015	1,50	5 1,692	1,664	1,680
2016	1,70	•	1,750	
2017	1,62	•		
2018	1,50	0		
	Age-t	o-age		
Accident Ye	ear 12	24	36	48
2015	1.12	5 0.983	1.009	
2016	1.01	6 1.008		
2017	1.11	0		
2018				
Cample 1				
Straight Average	1.0	84 0.99	6 1.009	,
Straight Average				
A-U	1.0	89 1.00	5 1.009	,
<u>Incurr</u>	ed <u>A-U</u>	<u>Ult</u> <u>I</u>	<u>Paid</u> <u>Un</u>	paid
2018 1,5	00 1.089	1633.7	625	L,009
Sample 2				
Weighted Averag	•		1.009	
A-U	1.087	1.005	1.009	
<u>Incurr</u>	ed <u>A-U</u>	<u>Ult</u>	<u>Paid</u> <u>Ur</u>	<u>ipaid</u>
2018 1,5	00 1.087	1630.7	625	1,006
EVANAINED'S DEDA	ODT			

EXAMINER'S REPORT

Candidates were expected to know the steps required to adjust the average case outstanding triangle in the reported Berquist-Sherman technique and calculate an estimated unpaid amount after adjusting the reported triangle for changes in case outstanding adequacy.

Candidates were not required to write out full triangles as long as the candidate demonstrated understanding of how to de-trend the average case outstanding triangle and create an adjusted reported triangle using those results.

Common mistakes included:

- Calculating the estimated ultimate, but not subtracting the 2018 paid amount to derive an unpaid estimate.
- Calculation errors in creating the adjusted reported loss triangle after de-trending the average case outstanding triangle.