16. (1.25 points)

An insurer has the following book of insurance policies and claim experience as of December 31, 2016:

Policy Number	Policy Effective Date	Policy Term (in Months)	Gross Written Premium	
1	January 1, 2015	12	12,000	
2	June 1, 2015	6	7,000	
3	August 1, 2015	12	10,000	
4	February 1, 2016	12	15,000	
5	May 1, 2016	6	8,000	

			Gross	Gross	
Claim			Paid	Case	Reinsurance
Number	Accident Date	Claim Report Date	Claims	Reserves	Recoveries
1	September 1, 2015	October 1, 2015	2,000	0	0
2	November 1, 2015	January 1, 2016	3,000	1,000	500
3	March 1, 2016	March 1, 2016	1,000	2,000	0
4	July 1, 2016	September 1, 2016	4,000	0	1,000

a. (0.5 point)

Calculate the calendar year 2016 gross earned premium.

b. (0.25 point)

Calculate the gross unearned premium as of December 31, 2016.

c. (0.5 point)

Calculate the reported claims net of reinsurance recoveries for accident year 2016 as of December 31, 2016.

SAMPLE ANSWERS AND EXAMINER'S REPORT

QUESTION 16

TOTAL POINT VALUE: 1.25 LEARNING OBJECTIVES: A2, B6

SAMPLE ANSWERS

Part a: 0.5 point

0 for policies 1 and 2

Policy 3: 10K x 7/12 = 5,833 Policy 4: 15K x 11/12 = 13,750 Policy 5: 8K x 100% = 8,000

Total = 27,583

Part b: 0.25 point

Policy 4 only: 15K x 1/12 = 1,250

Part c: 0.5 point

0 for claims 1 and 2

Claim 3: 1000 + 2000 = 3000 Claim 4: 4000 - 1000 = 3000

Total = 6000

EXAMINER'S REPORT

Candidates were expected to perform calculations for premium (earned and unearned) and reported loss net of reinsurance.

Part a

Candidates were expected to determine which policies had premium earnings in the period, determine the appropriate earnings ratio, and calculate earned premium.

Common errors included:

- assuming that all policies had earnings in 2016
- incorrect proration of one or more of the policies (for example, a ratio of 5/12 for policy 3 instead of 7/12)

Part b

Candidates were expected to determine which policies had unearned premiums as of the period end, determine the appropriate remaining policy term, and calculate the amount.

Common errors included:

- incorrect policies
- incorrect proration terms

SAMPLE ANSWERS AND EXAMINER'S REPORT

Part c

Candidates were expected to determine which claims occurred in the policy term and calculate reported loss, net of reinsurance.

Common errors included:

- use of paid loss without case reserves
- incorrect claims used in calculation
- showing only the recoveries