

AQA – Chi squared test for association – AS Further Mathematics Statistics

1. June/2020/Paper_2/No.2

A χ^2 test is carried out in a school to test for association between the class a student belongs to and the number of times they are late to school in a week.

The contingency table below gives the expected values for the test.

		Number of times late				
		0	1	2	3	4
Class	A	8.12	14	15.12	14	4.76
	B	8.99	15.5	16.74	15.5	5.27
	C	11.89	20.5	22.14	20.5	6.97

Find a possible value for the degrees of freedom for the test.

Circle your answer.

[1 mark]

6

8

12

15

(c) State in context the correct conclusion to Sylvia's test.

[1 mark]
