## **MATHEMATICS DEPARTMENT**

Course: ATMAA

**Topic Title: Skills Test 2** 



Student Name:	Soluti	9/1	Si

2016 Date:

Special Instructions: Calculators Allowed

Time Allowed: 30 mins

Marks:

/ 28

The following information relates to Questions 1 and 2.

The following table resulted from a survey of smokers and non-smokers.

	Males	Females	Total
Smokers	202	130	332
Non- smokers	446	294	740
Total	648	424	1072

## Question 1

(1 mark)

The percentage of women in the survey who are smokers is approximately:

A 12.1



C 39.2

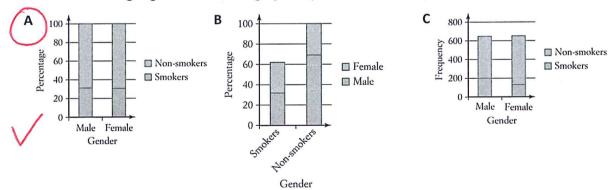
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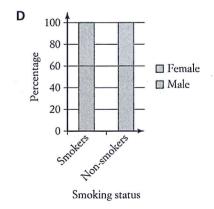
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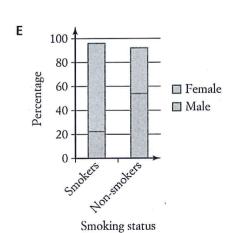
## Question 2

(1 mark)

Which of the following segmented column graphs represents the survey data?







The table below represents the results of a survey that determined the age of the survey participants and whether or not they were blood donors.

a) Complete the two-way table:

	Blood Donor	Non-donor	
16 – 18 years	8	17	25
19 – 25 years	17	42	59
26 – 40 years	29	51	80
41 – 65 years	9	33	42
	63	143	206
			VV

b) How many of the 16–18 year olds did not donate blood?

c) How many 26-40 year olds were surveyed?

d) How many 41–65 year olds donated blood?

e) How many of the participants surveyed were blood donors?

f) Convert the two-way table to a percentage two-way table.

	Blood Donor	Non-donor	
16 – 18 years	Holo.	8%	12°10
19 – 25 years	886	20°6	28%
26 – 40 years	140.	25°6	3906.
11 – 65 years	+ 5°10	16° lo.	21%
	31010.	69%	100%.
7	A /	/	
S# 16	40		

students may round up i category to get 31%.

Each employee of a small business was asked whether they had attained any university qualifications. Four of the 15 people working as secretaries/assistants and five of the eight members of management had attained university qualifications, whereas 21 of the 52 office staff had not.

Draw a two-way table to represent the data. a)

No Uni Quals	16	1
	15	
3	8	
خ2 ا ·	5a	
	3	3 8

iotal How many of the office staff had attained a university qualification? b)

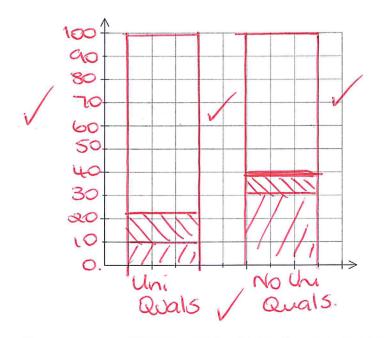
How many people does the small business employ altogether? c)

How many of the employees have a university qualification? d)

Convert the two-way table to a percentage two-way table. e)

	いろい	その ひとっ	del
Seclass	10%.	31%	
Manage.	10.5°6	9°10	
office.	77.5%	60%.	
Total	100%	100%	160%
		VV	

f) Use the data in the table to construct a segmented column graph.



Management