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**DEPARTMENT: ECONOMICS**  
**COURSE CODE:ECO104**  
**MATRIC NUM: 19/SMS01/001**

**ASSIGNMENT**

<b>VIEWING</b>	<b>F</b>	<b>class marks</b>	<b>F2</b>	<b>Upper class</b>	<b>(2c)cummulative</b>
TIME(minutes)				boundries	Freq distribution
300-399	14	249.5	0	299.5	0
400-499	46	349.5	14	399.5	14
500-599	58	449.5	46	499.5	60
600-699	76	549.5	58	599.5	118
700-799	68	649.5	76	699.5	194
800-899	62	749.5	68	799.5	262
900-999	48	849.5	62	899.5	324
1000-1099	22	949.5	48	999.5	372
1100-1199	6	1049.5	22	1099.5	394
		1149.5	6	1199.5	400
		1249.5	0		

Solutions

(a) 799

(b) 1000

©  $900+999/2=949.5$

(d) Lower class boundry of the last class

$1099+1100/2=1099.5$

Upper class boundry of the last class

$1199+1200/2=1199.5$

(e) Upper class boundry of the last class-Lower class boundry of the last class

$1199.5-1099.5=100(\text{hours})$

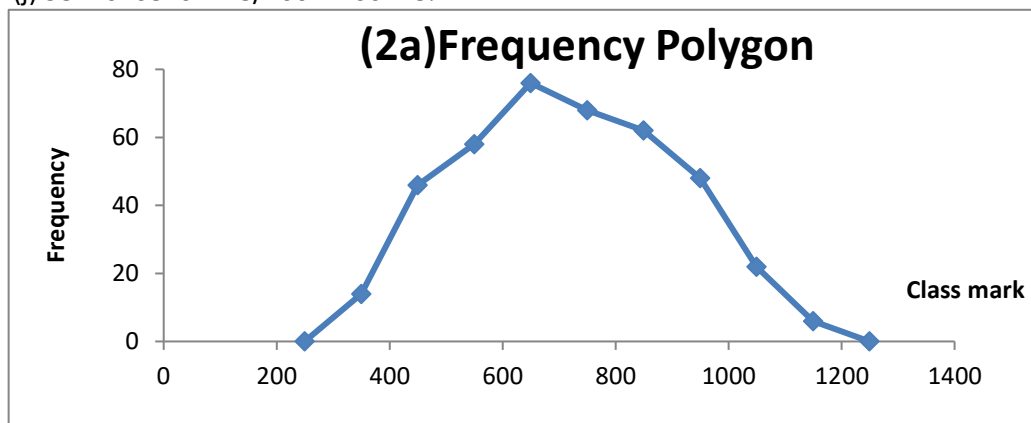
(f) 76

(g)  $62/400=0.155$  or 15.5%

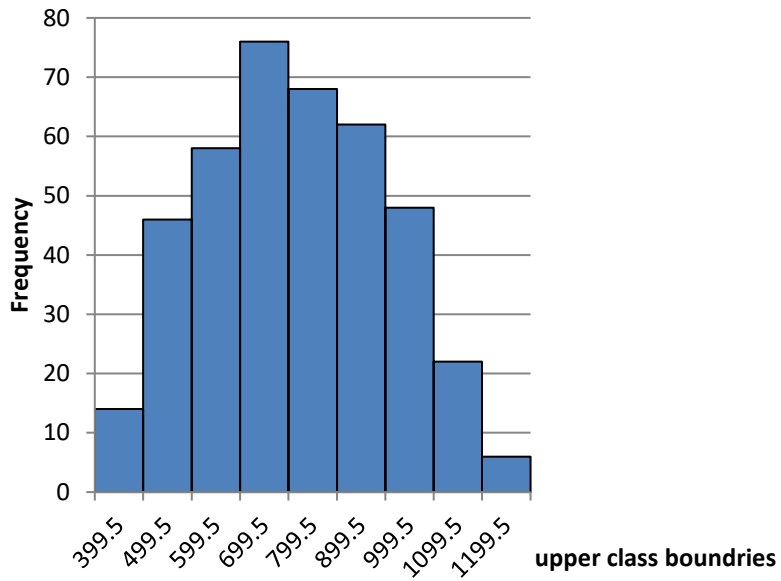
(h)  $14+46+58/400 * 100=29.5\%$

(i)  $48+22+6/400*100=19\%$

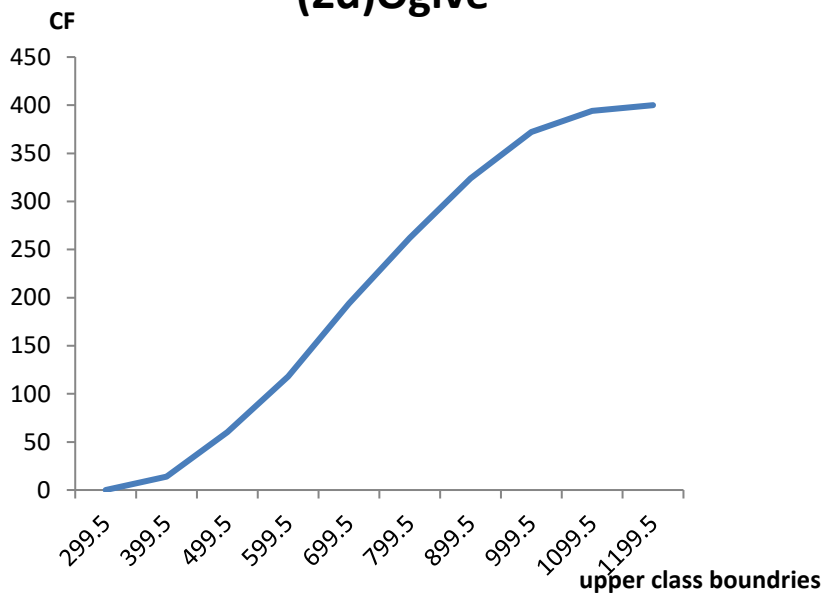
(j)  $58+76+68+62+48/400 * 100=78\%$



**(2b) Frequency Histogram**



**(2d) Ogive**



**Q3**

Grade	F	class	CF
		boundries	
30-39	1	29.5-39.5	1
40-49	3	39.5-49.5	4
50-59	11	49.5-59.5	15
60-69	21	59.5-69.5	36
79-79	43	69.5-79.5	79
80-89	32	79.5-89.5	111
90-100	9	89.5-100.5	120
total=120			

(a)(i)  $Q1=N/4$      $N/4=120/4=30$   
 $Q1= 59.5+(30-15/21)*(69.5-59.5)$   
 $59.5+5/7*10 =66.6$

(ii)  $Q3=3N/4=3*120/4=90$   
 $Q3= 79.5+(90-79/32)*(89.5-79.5)$   
 $79.5+11/32*10=82.9$

(iii)  $Q2= 2N/4$      $2N/4=2*120/4=60$   
 $Q2= 69.5+(60-36/43)*(79.5-69.5)$   
 $69.5+24/43*10=75.1$

(b)(i)  $P10=10*120/100=12$   
 $P10=49.5+(12-4/11)*(59.5-49.5)$   
 $49.5+8/11*10=56.8$

(ii)  $P25=25*120/100=30$   
 $P25=59.5+(30-15/21)*(69.5-59.5)$   
 $59.5+15/21*10=66.6$

(iii)  $P90=90*120/100=108$   
 $79.5+(108-79/32)*(89.5-79.5)$   
 $79.5+29/32*10=88.6$

(iv)  $P75= 75*120/100=90$   
 $79.5+(90-79/32)*(89.5-79.5)$   
 $79.5+11/32*10=82.9$