## Exercises on chapter 2 Complete the table ,then answer the following questions

| Class <br> interval <br> (Age) | Mid - <br> interval | Frequency <br> Freq (f) | Cumulative <br> Frequency | Relative <br> Frequency <br> R.f | Cumulative <br> Relative <br> Frequency |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $30-\mathbf{3 9}$ | 34.5 | $\mathbf{1 1}$ | 11 | 0.0582 | 0.0582 |
| $40-49$ | 44.5 | 46 | 57 | 0.2434 | - |
| $50-59$ | 54.5 | - | 127 | - | 0.6720 |
| $60-69$ | - | 45 | - | 0.2381 | 0.9101 |
| $70-79$ | 74.5 | 16 | 188 | 0.0847 | 0.9948 |
| $80-89$ | 84.5 | $\mathbf{1}$ | 189 | 0.0053 | 1 |
| Total |  | 189 |  | 1 |  |

## Example:

- From the above frequency table, complete the table then answer the following questions:
- 1-The number of objects with age less than 50 years?
- 2-The number of objects with age between 40-69 years?
- 3-Relative frequency of objects with age between 70-79 years ?
- 4-Relative frequency of objects with age more than 69 years?
- 5-The percentage of objects with age between $40-49$ years?
- 6- The percentage of objects with age less than 60 years ?
- 7-Variable is
- Type of variable is

8. True class for the third interval (50-59) is $\qquad$

- 9- The width of the interval (W) ?
- 10- Sample size is $\qquad$
- 11- The cumulative frequency of fourth interval ?
- 12- The Mid point for fourth interval
the following histogram show the frequency distribution of pathologic tumor size (in cm ) for a sample of cancer patients:



## Answer the following

1- The variable is $\qquad$
2. The type of the variable is

3 - The sample size is
4 - The name of the chart.
5- The number of cancer patient with lowest Pathologic tumor size is $\qquad$

6-The percent of cancer patients with approximate level of Pathologic tumor size $=2$.

Q1] For a sample of patients, we obtain the following graph for approximated hours spent without pain after a certain surgery


1) The type of the graph is:
(e)Bar chart (f) polygon
(d) histogram
(c) line (a) curve
(b) not known
2) The number of patients stayed the longesttime without pain is:
(f) 10
(e) 15
(d) 6
(c) 5
(b) 80
(a) 1
3)The percent of patients spent 3.5 hours or more without pain is:
(f) $37.5 \%$
(e) $68.75 \%$
(d) $18.75 \%$
(c) $50 \%$
(a) $25 \%$
(b) $30 \%$
4)The lowest number of hours spent without pain is:
(f)) 10
(e) 1
(d) 0.5
(c) 5
(b) 25
(a) 6.5
