DESCRIPTIVE STATISTICS: TABLES AND FIGURES

1. The frequency distribution below summarizes employee years of health care service in a Romanian county.

Years of service	Absolute frequency	Relative frequency
≤ 5	5	=5/100 = 0.05
6-10	20	=20/100 = 0.20
11-15	30	=30/100 = 0.30
16-20	15	=15/100 = 0.15
21-25	20	=20/100 = 0.20
26-30	10	=10/100 = 0.10
Total	100	

The relative frequency of 0.2 corresponds to:

a. 6-10 years
b. 11-15 years
c. 16-20 years
d. 21-25 years
e. 26-30 years

2. The frequency distribution below summarizes employee years of health care service in a Romanian county.

Years of service	Absolute frequency	Relative frequency	Cumulative relative frequency
≤ 5	5	=5/100 = 0.05	=0.05
6-10	20	=20/100 = 0.20	=0.05+0.20=0.25
11-15	30	=30/100 = 0.30	=0.30+0.25=0.55
16-20	15	=15/100 = 0.15	=0.15+0.55=0.70
21-25	20	=20/100 = 0.20	=0.70+0.20=0.90
26-30	10	=10/100 = 0.10	=0.10+0.90=1
Total	100	1	

The cumulative relative frequency of 1 corresponds to:

a. 6-10 years
b. 11-15 years
c. 16-20 years
d. 21-25 years
e. 26-30 years

3. The frequency distribution below summarizes employee years of health care service in a Romanian county.

Years of service	Absolute frequency	Cumulative absolute frequency
≤ 5	5	=5
6-10	20	=5+20=25
11-15	30	=30+25=55
16-20	15	=15+55=70
21-25	20	=20+70=90
26-30	10	=10+90=100

55 health care professionals were employed for less than:

a. 6 years
b. 11 years
c. 16 years
d. 21 years
e. 26 years

4. A study was conducted in Cluj County to investigate if the price of US examination is related with the distance of each of these US offices from the Cluj-Napoca city centre. Which of the following graphical techniques is appropriate to be used to investigate such a relationship?

a. two histograms, one of US examination fee and one of distance from Cluj-Napoca city centre
b. a scatter diagram
c. a bar graph with distance on the x-axis and price on the y-axis
d. a bimodal histogram
e. pie chart

5. It has been claimed that the most frequently sell antibiotic in the last year is Augmentin. 52 pharmacies were randomly chosen to participate in this study and each pharmacy was asked to provide the name of antibiotic (active substance) most frequently sell in the last year. What type of data has been collected and which graphical representation would be most appropriate to be use amongst those listed below?

a. Quantitative data to be represented in a pie chart
b. Qualitative data to be represented in a histogram
c. Quantitative data to be represented in a bar chart
d. Qualitative data to be represented in a pie chart
e. Quantitative data to be represented in a scatter