

PRACTICE EXERCISE ON STATISTICS



At the end of the chapter, students should be able to:

1. Rank data in order of size.
2. Prepare a frequency table.
3. Find the mean, median and mode of a set of numbers.
4. Draw and analyse data on pie chart.

Everyday Statistics

The scores of three students in English, Mathematics and Integrated Science examination are as shown in the table 1.

1. What is the highest mark in English?
2. What is the least mark in Mathematics?
3. What is the overall best mark?
4. What is the overall least mark?
5. Who scored the highest mark in English?
6. Who scored the least mark in Mathematics?
7. In which subject is Franklin better than the others?

Table 1

	English	Mathematics	Integrated Science
Abubakar	70	59	70
Franklin	58	62	51
Regina	47	56	30

The scores of 10 students in an Introductory Technology test were as follows:

70	80	69	67	61
45	50	81	34	65

8. What was the highest score?

9. If the pass mark is 50, how many students passed the test?

10. What was the least score?

11. What was the difference between the highest and the least score?

A hotelier recorded the number of customers served with different meals in an hour in the restaurant:

Table 2

Food item	Number of customers
Rice and beans	15
Indomie and eggs	20
Garri	25
Pounded yam	10
Amala	30

12. What is the most popular food item within the period?

13. Evaluate the average number of customers per food item.

14. What is the least patronised food item?

15. If a person comes to the hotel, what is the probability that he will eat Garri?

The ages in years of five boys are as follows:

12	13	13	14	12
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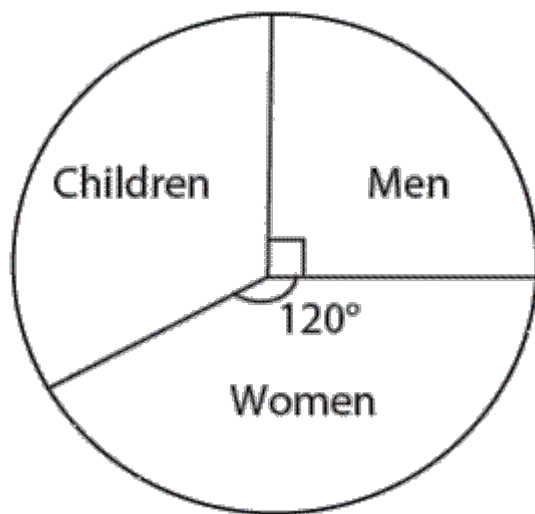
16. How many boys are aged 13 years?

17. How many boys are aged 12 years?

18. How many boys are aged <14 years?

19. How many boys are aged over 12 years?

The pie chart represents the population of a city. Use the chart to answer questions 20 and 21, if the number of men is 4 500.



20. How many children are in the city?

21. What is the population of the city?

The table below shows the sales data of a bookshop for the week.

Size	Number sold	Profit (₦)
40 leaves	100	60.00
60 leaves	30	22.50
90 leaves	25	25.00

22. Which of the exercise books will you advice the bookshop manager to continue to stock?

23. Give a reason for your decision in question 22.

24. Which of them will you advice the manager not to stock again?

25. Give a reason for your decision in question 24.

26. What was his total profit for the week?

The table below shows the statistics of the number of students in a secondary school in the year 2000 to 2005.

	2000	2001	2002	2003	2004	2005
Number of students	361	364	399	435	470	506

27. Is the school growing in size?

28. What is the difference between the number of students in 2005 and 2000.

29. If there are about 32 students in each class, how many classes did the school have in 2000 and 2001?

30. In one of the mentioned years above, the school started a new form one class. Find which year?

31. When will form one class be a form five class?

32. Estimate the number of students that the school will have in 2006.

33. Examination scores (in %) of eight students are as follows: 99, 10, 16, 8, 8, 99, 13, 16. Prepare a tally sheet and frequency table for the data. The following is a rank order list of a test result: 87, 82, 78, 76, 75, 70, 66, 64, 59,

59, 59, 51, 49, 48, 41.

34. How many students took the test?

35. What was the highest mark?

36. What was the least mark?

37. What is the mark of the student in the 6th position?

38. What is the position of the student who scored 76 marks?

39. Three students scored 59 marks. What is their position?

40. What is the position of the student who scored 51 marks?

41. How many students scored less than 75 marks?

42. How many students scored more than 45 marks?

43. If 45 is the pass mark, how many students failed?

44. What is the mark of the students in the middle of the rank order?

The data below are the number of experiments performed by 33 students in physics within one month:

3	3	1	5	7	2	6	4	6	4	2
1	3	1	4	3	4	2	2	5	2	7
4	2	0	3	2	3	0	2	0	2	3

45. Prepare a tally and a frequency table for the data.

46. What is the number of experiments that was performed by majority of the students?

47. How many students performed only four experiments?

48. The table below shows the number of oranges possessed by three students namely John, Tina and Rose.

Students	Number of oranges
John	5
Hajara	3
Rose	7

Draw a pictogram to illustrate the information.

49. A farmer recorded the following farm products at the end of the year in the table below.

Crop	Tons
Maize	20
Rice	16
Millet	24

Draw a pie chart to illustrate the data.

50. The population of four towns namely Ibadan, Enugu, Kano and Zaria, are

shown in the table below:

Town	Population (millions)
Ibadan	3
Enugu	2
Kano	4
Zaria	2

Illustrate the data using a bar chart.