

### **DATA HANDLING**

1. Atai scored the following marks in a series of tests : 80 , 20 , 60 , 10 , 30 , 70 and 80.  
Work out the;

- a) mode.                      b) range.                      c) median.                      d) modal frequency.

2. The marks below were scored by P.7 pupils in a weekly test marked out of 20:  
18 , 12 , 10 , 18 , 14 , 20 , 18 , 12 , 10 , 16 , 15 , 18 and 14.

- a) Tabulate using tallies.                      b) Find the modal frequency.  
c) Find the range.                      d) What is the mode?  
e) Find the median.                      f) Calculate the mean.

3. The mean of 4 ,  $3x$  , 2 and 3 is 3. Find the value of  $x$ .

4. The average of the scores 5 , 9 ,  $k$  , 7 and 5 is 6. Find the value of  $k$ .

5. The mean of 5 , 9 ,  $p + 2$  , 6 and 4 is 7.

- a) Find the value of  $p$ .                      b) Work out the range of the numbers.

6. Find the mean of  $p - 2$  ,  $2p$  and 5.

7. What number is half way of  $\frac{2}{3}$  and  $\frac{1}{4}$ ?

8. The mean of six numbers is 11. If the numbers are 4 , 8 , 10 ,  $y$  , 15 and 17.

- a) Find the value of  $y$ .                      b) Find the median number.

9. The average weight of 3 boys is 18kg. If two of the boys weigh 16kg and 15kg, what is the weight of the third boy?

10. The mean weight of 3 boys is 36kg. Two of the boys weigh 35kg and 40 kg. Find the weight of the third boy.

11. The average age of three girls in a class is 12 years. If the third girl whose age is 14 years leaves the class, find the age of the third girl.

12. The average mass of five boxes is 55kg. Two boxes of average mass 40kg were removed. What is the average mass of the remaining boxes?

13. The mean mass of 4 boys is 22kg. When the fifth boy joins them, their mean mass becomes 20kg. Find the mass of the 5th boy.

14. The average weight of 7 girls is 42kg. If four of the girls whose average weight is 48kg leave the group, find the average weight of the remaining girls.

15. The average weight of 4 boys is 34kg. If three of the boys weigh 40kg , 30kg and 28kg. Find the weight of the fourth boy.

16. The average age of 2 candidates is 30 years. When their sister joins the group, their average age is 28years. Find the age of the sister.

17. The average age of 10 boys is 12 years. When two boys leave the group, their average age becomes 11 years. What is the average age of the two boys?

18. Use the table below to answer the questions that follow:

Marks scored	50	40	20	60
No. of pupils	1	2	1	5

- a) How many pupils sat for the test?                      b) What was the modal frequency?  
c) Work out the range of the scores?  
d) Calculate the mean mark of pupils who scored 60marks and above.

19. The table below shows the marks attained by a group of candidates in a test.

Percentage mark	92	70	86	88
Frequency	5	2	4	1

- a) How many candidates were in this group?  
b) How many candidates in this group scored above the average mark?

20. Candidates scored the following marks in a test:

Percentage mark	42	r	58	49	83
No. of candidates	3	2	1	3	1

- a) How many candidates sat for the test?  
b) If the average mark is 48, find the value of r.  
c) Work out their range.