A2.S.3: Central Tendency: Calculate measures of central tendency with group frequency distributions

1   What is the mean of the data in the accompanying table?

Scores (x_i)	Frequency (f_i)
25	3
20	2
11	5
10	4

1) 11
2) 14.5
3) 15
4) 16

2   The table below gives a set of measures and their respective frequencies. Find the *mean* of these measures.

Measure (x_i)	Frequency (f_i)
2	2
5	3
7	4
8	1

3   What is the mean for the following set of data?

Measure (x_i)	Frequency (f_i)
70	2
80	3
90	5

4   What is the median of the set of data shown in the table below?

Measure (x_i)	Frequency (f_i)
4	15
5	8
6	13
7	10

1) 15
2) 10.5
3) 5.5
4) 4

5   What is the median for the following set of data?

x_i	f_i
20	2
21	5
23	4
24	4

6 What is the mode of the data shown in the following table?

Measure (x_i)	Frequency (f_i)
5	3
12	2
13	5
18	4

1) 12
2) 12.5
3) 13
4) 51.5

8 Using the data in the accompanying table, which statement is true?

measure (x_i)	frequency (f_i)
8	1
10	3
14	2

1) mean = median
2) mean > median
3) mean < mode
4) median > mode

7 Which correctly compares the mean and median of the set of data shown in the accompanying table?

x_i measure	f_i frequency
60	2
75	4
80	1
90	3

1) The mean and median are equal.
2) The mean exceeds the median by 2.
3) The median exceeds the mean by 2.
4) The mean exceeds the median by 2.5.

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Answer Section

1 ANS: 3   REF: 060507b
2 ANS:
   5.5

   REF: 088509siii
3 ANS:
   83

   REF: 088714siii
4 ANS: 3   REF: 068525siii
5 ANS:
   23

   REF: 068909siii
6 ANS: 3   REF: 068720siii
7 ANS: 2   REF: 068134siii
8 ANS: 2   REF: 018525siii