Maths





1. The ages of people in a drama club are recorded in the table in the below.

Age	Frequency
8	4
9	7
10	9
11	14
12	10
13	7
14	5
15	4

Calculate the mean age of the drama club.

2. A teacher records time spent, in hours, on coursework for two groups X and Y.

Group X

Time (H)	Frequency
5	3
6	4
7	5
8	2
9	1
10	1

Group Y

Time (H)	Frequency
5	0
6	4
7	6
8	2
9	1
10	0

Calculate the mean to decide which group of students has spent the least amount of time on their coursework.



3. The sizes of trainers sold in a shop in one week are recorded. Marcus is calculating the mean size sold.

Size	Frequency	
5	3	15
6	5	30
7	5	35
8	8	64
9	9	81
10	15	150
11	5	55
56		430

Mean = $430 \div 56$ Mean = 7.7

What mistake has Marcus made?

4. The time take to run a race are recorded to the nearest second.a) Complete the missing values in the table.

Time (sec)	Frequency	
	4	60
16		60 64
17	5	
18	10	
19		0
20	2	
	25	

b) What is the mean time taken?



Answers



1. The ages of people in a drama club are recorded in the table in the below.

Age	Frequency	
8	4	32
9	7	63
10	9	90
11	14	154
12	10	120
13	7	91
14	5	70
15	4	60
	60	680

Calculate the mean age of the drama club. $680 \div 60 = 11.3$

2. A teacher records time spent, in hours, on coursework for two groups X and Y.

Group X

Group Y

Time (H)	Freq	Time x Freq
5	3	15
6	4	24
7	5	35
8	2	16
9	1	9
10	1	10
	16	109

Time (H)	Freq	Time x Freq
5	0	0
6	4	24
7	6	42
8	2	16
9	1	9
10	0	0
	13	91

Calculate the mean to decide which group of students has spent the least amount of time on their coursework.

X = 6.8 hours and Y = 7 hours



3. The sizes of trainers sold in a shop in one week are recorded. Marcus is calculating the mean size sold.

Size	Frequency	
5	3	15
6	5	30
7	5	35 64
8	8	64
9	9	81
10	15	150
11	5	55
56		430

Mean = $430 \div 56$ Mean = 7.7

What mistake has Marcus made? He didn't divide by the sum of frequency.

4. The time take to run a race are recorded to the nearest second.a) Complete the missing values in the table.

Time (sec)	Frequency	
15	4	60
16	4	64 85
17	5	85
18	10	180
19	0	0
20	2	40
	25	429

b) What is the mean time taken?

17.16 seconds

