Categorical, numerical and grouped data – 2020 O Level Math D

1. Nov/2020/Paper_11/No.7

(a) The numbers of emails received by 18 students in a class one Monday are given below.

4	12	14	6	3	6	9	7	11
8	7	11	14	6	13	5	12	9

Complete the grouped frequency table for these emails.

Number of emails		Frequency
0 to 5		
6 to 10		
11 to 15		

[1]

(b) A student is chosen, at random, from a different class.
The probability that this student received five emails is $\frac{9}{20}$.

Write down the probability that this student did **not** receive five emails.

..... [1]

2. Nov/2020/Paper_11/No.10

(a) A football team recorded the number of goals scored in each of their 20 games. The table shows the results.

Number of goals scored	0	1	2	3	4
Frequency	6	5	4	4	1

(i) Write down the mode.

..... [1]

(ii) Find the median.

..... [1]

(b) In the football team

- the 2 tallest players have a mean mass of 75kg
- the 8 shortest players have a mean mass of 60kg.

Calculate the mean mass of these 10 players.

..... kg [2]

3. Nov/2020/Paper_11/No.19

4.

5.

6.

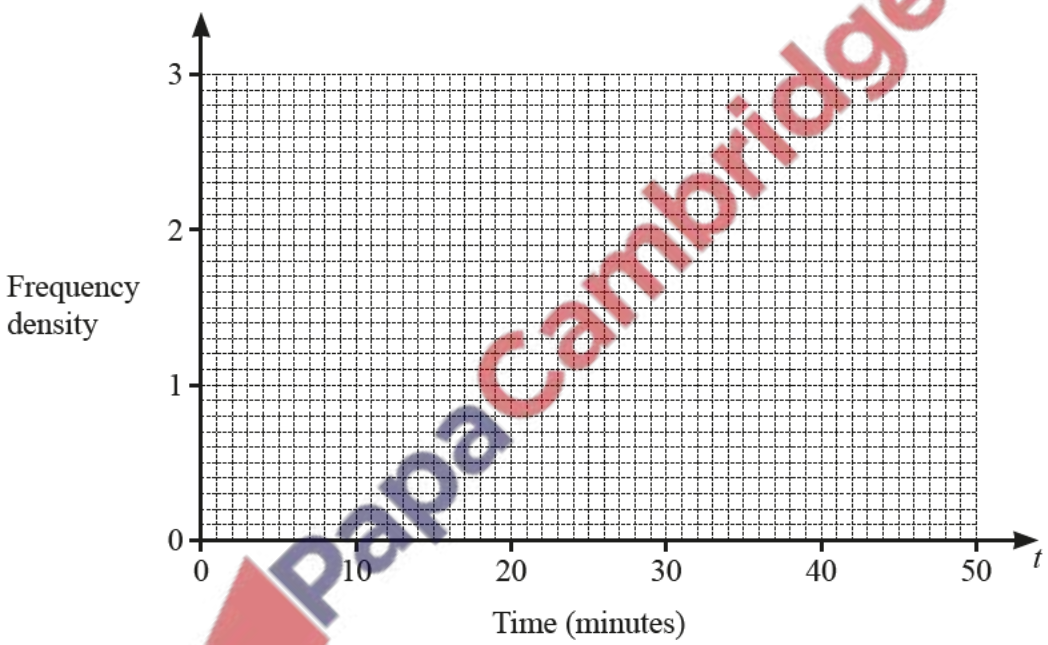
7.

8.

The times, t minutes, taken by some people to travel to work are shown in the table.

Time (t minutes)	$10 < t \leqslant 20$	$20 < t \leqslant 25$	$25 < t \leqslant 30$	$30 < t \leqslant 50$
Frequency	16	15	10	12

On the grid, draw a histogram to represent this data.



[3]