1. The following are the details or the number of students in a class of 30 students present during a week.

Day	Number of students present
Monday	24
Tuesday	20
Wednesday	28
Thursday	30
Friday	26
Saturday	22

Represent the above data by a pictograph.
Solution:

Consider that an icon of a student represent 4 students. So the number of icons for each day is given below:

Day	Number of students present
Monday	24/4 = 6
Tuesday	20/4 = 5
Wednesday	28/4 = 7
Thursday	30/4 = 7.5
Friday	26/4 = 6.5
Saturday	22/4 = 5.5

So the pictograph which represents the above data is as follows:

2. Total number of students of a school in different years is shown in the following table:

Year	Number of students
1996	400
1998	550
2000	450
2002	600
2004	650

Represent the above data by a pictograph.
(a) Prepare a pictograph of students using one symbol an icon of a student to represent 100 students and answer the following questions:
(i) How many symbols represent total number of students in the year 2002?
(ii) How many symbols represent total number of students for the year 1998?
(b) Prepare another pictograph of students using any other symbol each representing 50 students. Which pictograph do you find more informative?
Solution:

(a) Consider that one icon represents 100 students.
So the number of icons for different years is given below:

Year	Number of students
1996	400/100 = 4
1998	550/100 = 5.5
2000	450/100 = 4.5
2002	600/100 = 6
2004	650/100 = 6.5

So the pictograph which represents the above data is as follows:

Year	Number of Students
1996	🧑 🧑 🧑 🧑
1998	🧑 🧑 🧑 🧑 🧑 ⅃
2000	🧑 🧑 🧑 🧑 ⅃
2002	🧑 🧑 🧑 🧑 🧑 🧑
2004	🧑 🧑 🧑 🧑 🧑 🧑 ⅃

(i) 6 symbols represent total number of students in the year 2002.

(ii) 5 and half symbols represent total number of students in the year 1998.

(b) Consider one icon represents 50 students.
So the number of icons for different years is as given below:

Year	Number of students
1996	400/50 = 8
1998	550/50 = 11
2000	450/50 = 9
2002	600/50 = 12
2004	650/50 = 13

So the pictograph which represents the above data is as follows:

Year	Number of Students
1996	𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏
1998	𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏
2000	𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏
2002	𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏
2004	𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏

The second pictograph is more informative as every icon is complete and more convenient to understand.