

 chapter 16 review

1. (a) Write down the mode of the following set of numbers:
2, 5, 6, 7, 8, 5, 3, 2, 5, 2, 2

- (b) The grades that 24 students got in an exam are listed below:

A	B	C	A	A	C
B	C	C	A	D	C
D	D	C	A	A	D
C	B	B	B	A	A

Using these results, copy and complete the following frequency table:

GRADE	D	C	B	A
NUMBER OF STUDENTS				

Find the modal grade.

- (c) ✎ Use the completed table to draw a pie chart.
2. (a) ✎ Find the average of the numbers 2, 5, 7, 12, 14.
- (b) ✎ The table below shows the number of pupils per car coming to school in the morning:

NUMBER OF PUPILS PER CAR	1	2	3	4	5
NUMBER OF CARS	8	12	6	24	2

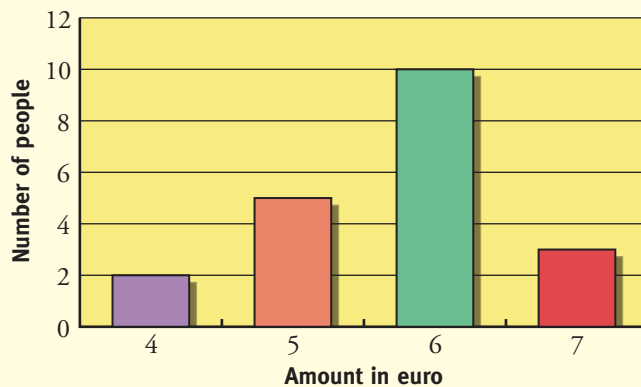
Use the table to find each of the following:

- (i) the total number of students who came to school by car on that morning
- (ii) the modal number of pupils
- (iii) the mean number of pupils per car.
- (c) ✎ Use the frequency table in part (b) to draw a bar chart.

3. (a) \triangleleft If 5 is the average of the numbers 1, 2, 4, 6, 7, n , find the value of n .
- (b) \triangleleft The table below shows the number of school days missed by students.

NUMBER OF DAYS MISSED	0	1	2	3	4	5
NUMBER OF STUDENTS	12	7	12	10	6	3

- (i) Draw a bar chart of the data.
- (ii) Find the mean number of days missed per student.
- (iii) Find the percentage of students who missed two or three days.
- (c) \triangleleft The mean of three numbers is 12. If another number is added, the mean of these four numbers changes to 14. Find the third number.
4. (a) \triangleleft The bar chart below shows the amount of money spent by 20 people in the lottery:



Find the total amount of money spent by the 20 people.

- (b) \triangleleft Use the bar chart in part (a) to complete the frequency table below:

AMOUNT IN €	4	5	6	7
NUMBER OF PEOPLE		5		

Use the table to find each of the following:

- (i) the average amount of money spent per person
- (ii) the modal amount of money spent.
- (c) \triangleleft In a lottery, 3 red balls, 2 blue balls and 1 green ball were drawn. Draw a pie chart to show this information.

5. (a) (i) Calculate the mean of 0, 7, 10, 15, 18.
 (ii) Calculate the mean of 7, 10, 15, 18.
- (b) The table below shows the number of pupils in each year in a school:

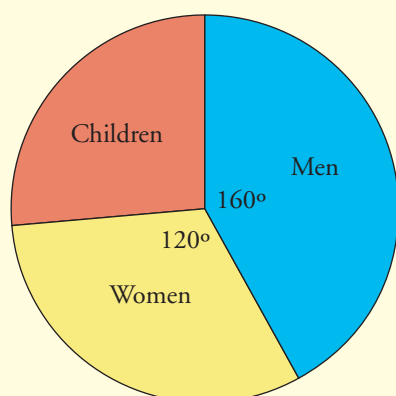
YEAR	First	Second	Third	Fourth	Fifth	Sixth
NUMBER OF PUPILS	80	65	60	70	x	60

If the average number of pupils per year is 70, find the value of x .

- (c) Use the frequency table in part (b) to draw a bar chart.
6. (a) Find the mode of 3.5, 3.6, 3.5, 3.7, 3.7, 3.5, 3.2, 3.1, 3.6.
- (b) A dice was rolled 50 times. The numbers which came up and the amount of times they came up are shown in the frequency table:

NUMBER ON THE DICE	1	2	3	4	5	6
FREQUENCY	8	10	6	12	3	11

- (i) What is the most common number that appears?
 (ii) Draw a bar chart of the information.
- (c) A survey was taken of the number of people entering a computer shop on a certain day. The results are shown on the pie chart:



- (i) If 72 children went into the computer shop on that day, how many people in total went in?
 (ii) How many men entered the computer shop on that day?