Learning Objective:	Discrete Grouped Data	Name:	
		Date:	

## **Do NOW Activity:**

- 1 Find the nth term 12, 14, 16, 18
- 2 Simplify the ratio 15:27
- 3 Work out 5 × £4.55
- Work out the mean 3, 12, 7, 12, 11
- 5 Complete the **equivalent fraction**  $\frac{2}{3} = \frac{?}{15}$

## PRIOR KNOWLEDGE CHECK:

1. I can find multiples and factors

## THE MAIN EVENT

WORK	ED EX	AMPLE	E #1:				
he data b earest kg.		the mass	of 40 stude	nts in a cla	ss. The mea	asurement	is to the
55	70	57	73	55	59	64	72
60	48	58	54	69	51	63	78
75	64	65	57	71	78	76	62
49	66	62	76	61	63	63	76
52	76	71	61	53	56	67	71
14/	مامامان			- f F			
		oose int n the s			nd end	with 7	9

## **PRACTICE #1:**

1. Here are the colours of  $40\ cars$  in the Abbey school car park:

Red	red	blue	green	white	red
Blue	red	red	blue	white	green
Red	white	white	blue	red	white
Blue	blue	green	black	white	blue
Red	silver	silver	blue	red	red
Silver	white	white	red	blue	green
Red	blue	silver	white		

(i) Copy and complete the tally chart below:

<u> </u>				
Colour of Car	Tally	Frequency		
Red				
Blue				
Green				
White				
Silver				
Black				

- (ii) What is the most popular colour?
- (iii) Which colour represents 25% of the total?

2. The ages in years, of 40 people, are shown below.

43	24 33	26	35	15	27	34	19	20
42	49 34	56	37	19	21	50	39	29
54	57 30	28	26	18	20	34	3	33
9	101 27	12	47	11	7	25	37	

Copy and complete the grouped tally chart for the given data.

Age (years)	Tally	Frequency
0-9		
10-19		
20-29		
30-39		
40-49		
50-59		

- (i) What is the width of each class interval?
- (ii) How many people are less than 20 years old?
- (iii) How many people are 40 years of age or older?
- The number of birds in a garden are recorded at the same time each day over a 50-day period. These numbers are given below.

4	24	11	24	3	7	8	12	23	14
22	15	5	6	7	8	11	3	8	25
3	7	5	7	17	9	1	13	7	12
1	2	8	18	13	12	3	6	6	9
17	15	11	9	8	17	7	14	16	4

Construct a tally chart using groups of 1-5, 6-10, 11-15, 16-20, 21-25.

4. The staff in a shoe shop keep a record of the sizes of all the shoes they sell in one day. These are listed below:

```
8 7 6 6 8 7 5 4 3 1
1 1 7 8 9 5 6 6 5 6
3 10 8 9 7 6 6 5 4 2
6 9 11 3 5 6 7 8 8 3
4 6 7 8 9 8 8 7 6 4
```

- (i) Draw a grouped frequency table using appropriate class intervals.
- (ii) What is the width of each class interval?
- (iii) How many people have a shoe size less than 5?
- (iii) How many people are have a shoe size of 6 or more?
- 5. Graham uses his calculator to generate random numbers. He decides to investigate if the numbers are really random. Using his calculator, he produces the following numbers:

```
9 9 1 5 4 7 0 3 9 2
7 9 2 3 0 9 1 0 5 8
9 2 2 1 0 7 0 4 3 9
0 8 6 2 9 7 3 2 9 9
7 8 3 6 8 9 5 0 4 7
9 6 5 9 1 2 4 7 8 4
3 6 9 7 9 0 1 4 3 7
```

- (i) Draw a grouped frequency table using appropriate class intervals.
- (ii) What is the width of each class interval?
- (iii) what is the modal number?