Appendix 5: Graphical Representations
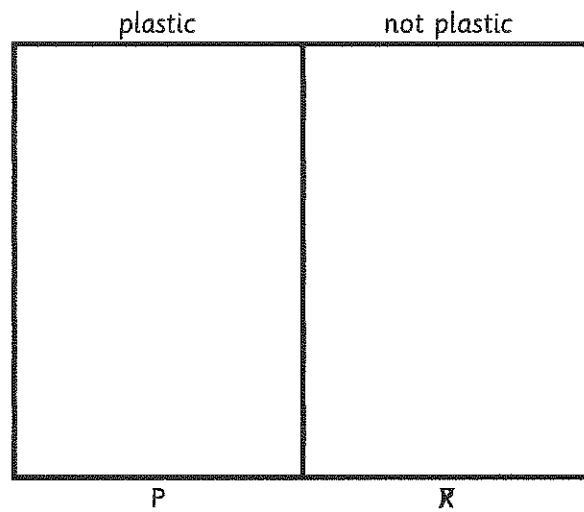## Sorting Diagrams

One attribute

Carroll Diagram

plastic	not plastic
P	R̄

Venn Diagram

R̄

P

Tree Diagram

plastic   not plastic

objects for sorting
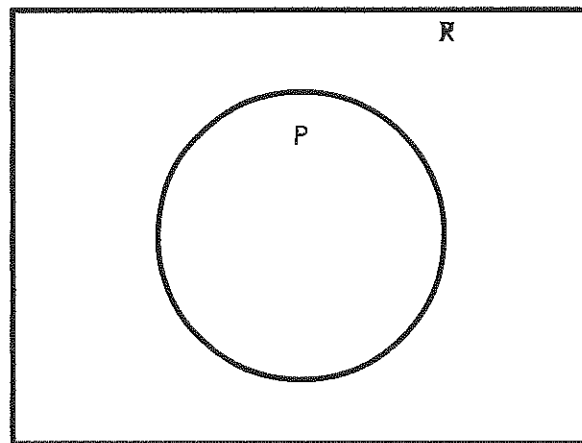
Appendix 5: Graphical Representations
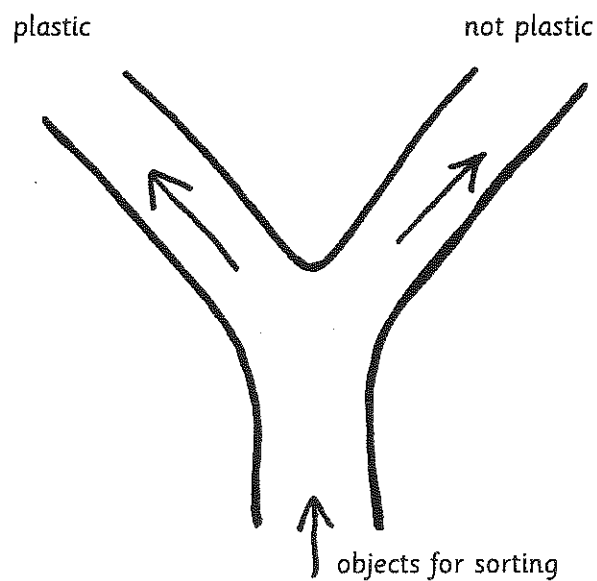## Sorting Diagrams

Two attributes

Carroll Diagram

	odd	not odd
multiples of 3	3, 15, 9	6, 12, 18
not multiples of 3	11, 17, 1, 13, 5, 7, 19	2, 10, 14, 20, 8, 4, 16

Venn Diagram

O   Ø

2   4   10

odd: 11, 17, 1, 5, 13, 7, 19

3, 9, 15 (intersection)

multiples of 3: 6, 12, 18

8   16

14   20

not odd and not multiples of 3

Tree Diagram

3, 9, 15   1, 5, 7, 11, 13, 17, 19   6, 12, 18   2, 4, 8, 10, 14, 16, 20

O   Ø

numbers 1-20
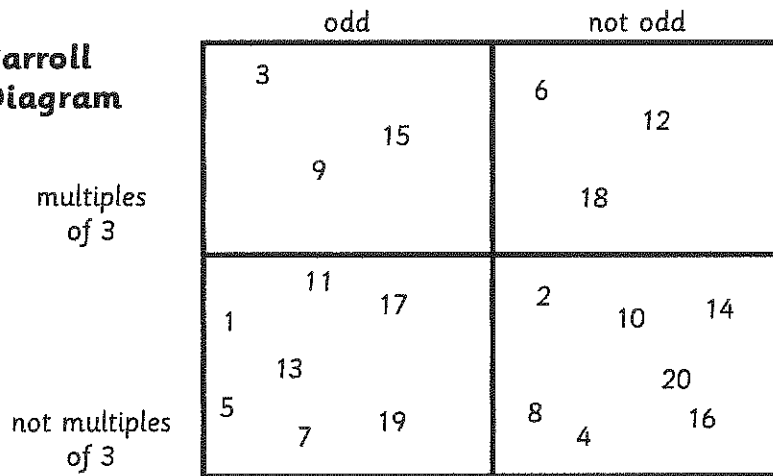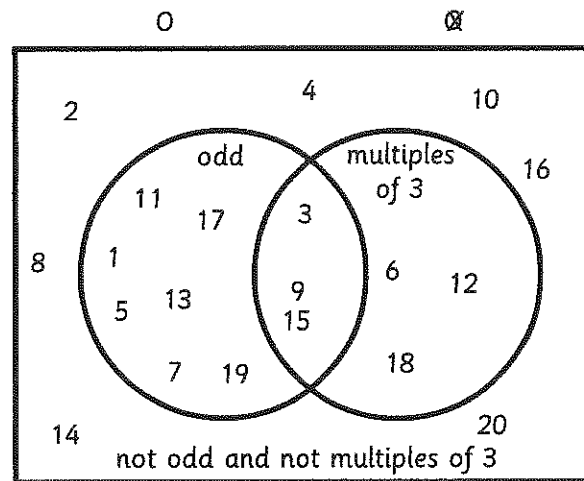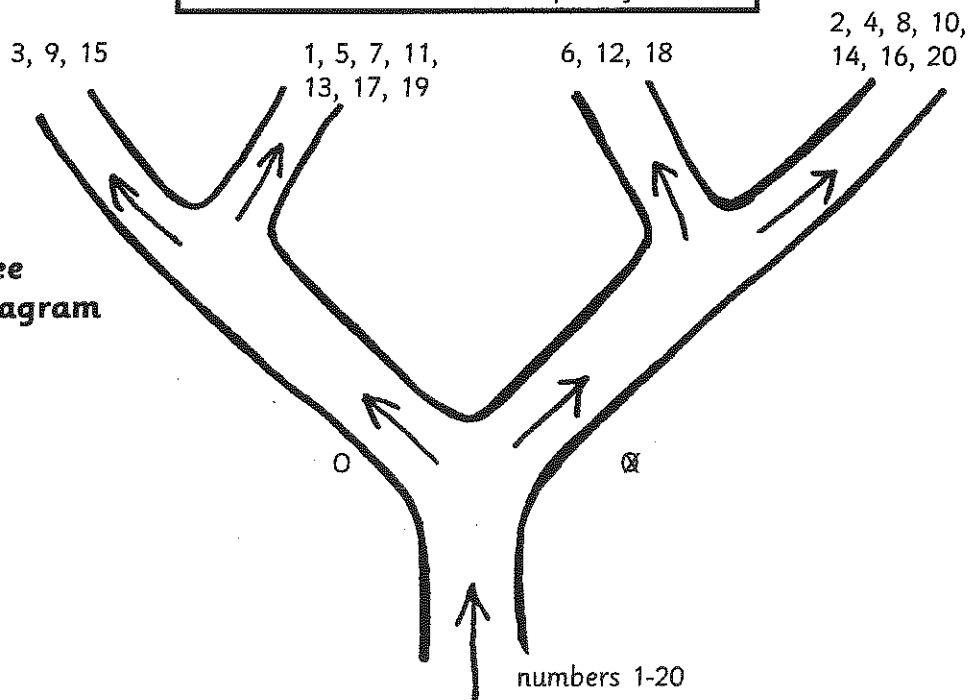
Appendix 5: Graphical Representations
Sorting Diagrams

Three attributes

Carroll Diagram

	red	not red
triangles		not thick
		thick
not triangles		

Venn Diagram

red   triangles

thick

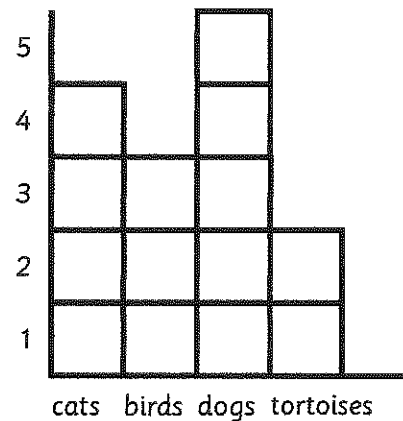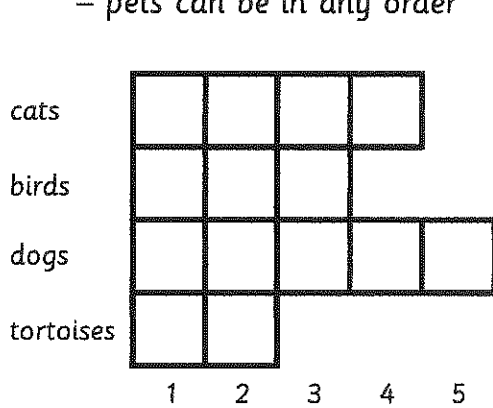not red
and not triangles
and not thick
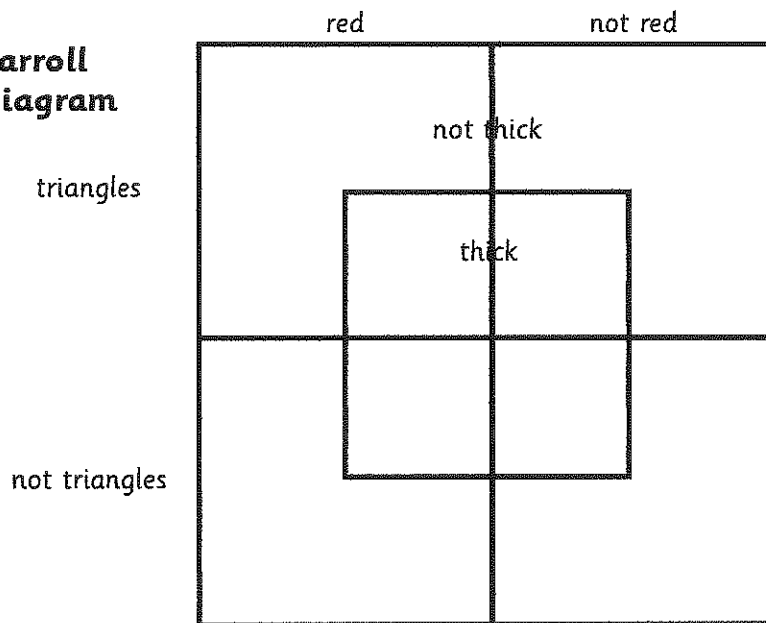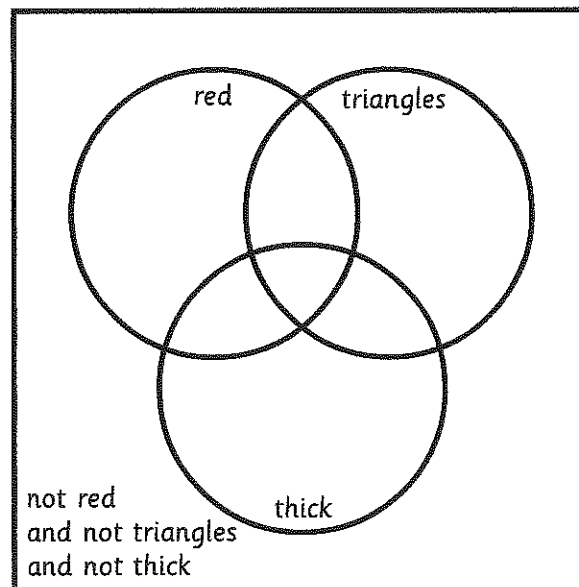
Appendix 5: Graphical Representations
Examples of different forms of graphical representation
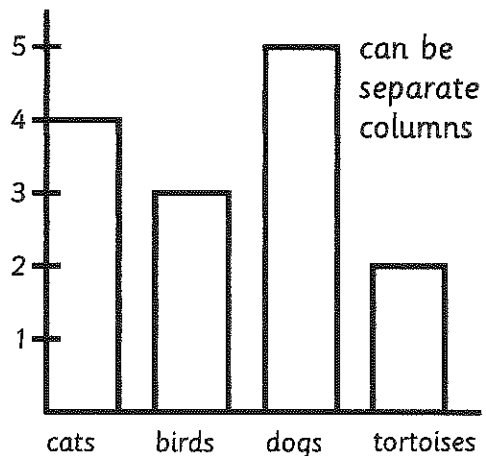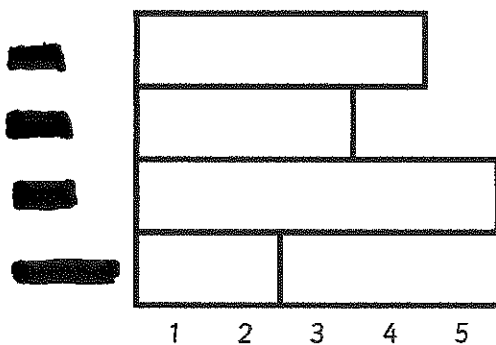
Pictograms
A set of 4 cats
arranged in
a row or column

cars

lorries

Traffic counts where one
picture stands for 10 vehicles

Block Graph – individual Squares. Horizontal and vertical block graphs
– pets can be in any order

cats

birds

dogs

tortoises

1   2   3   4   5

5
4
3
2
1

cats birds dogs tortoises

Bar Graph – continuous strip

1   2   3   4   5

5
4
3
2
1

cats   birds   dogs   tortoises

can be
separate
columns

Bar-Line Graph

cats

birds

dogs

tortoises

1   2   3   4   5

5
4
3
2
1

cats birds dogs tortoises