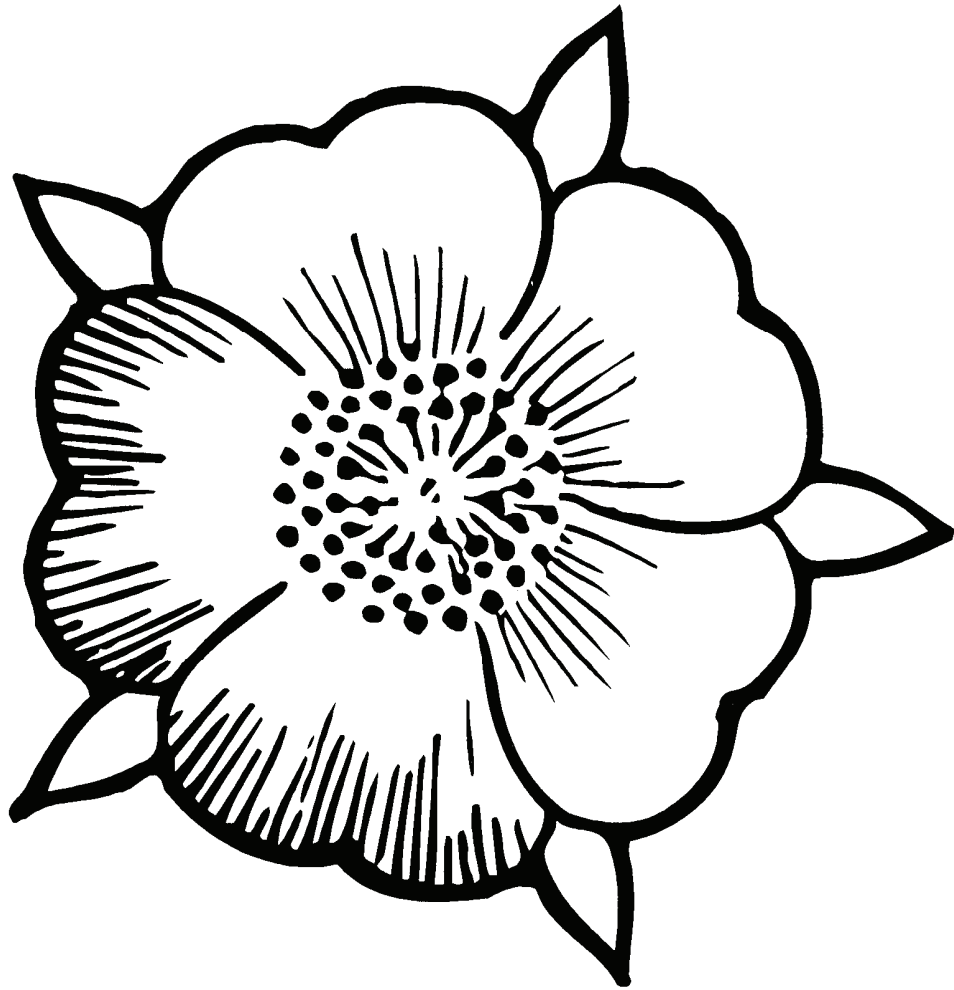




**Birmingham Botanical Gardens  
Study Centre**



**Key Stage 1  
Maths Trail  
Answers for Teachers**

# Introduction

Useful information about the trail has been set out in the format:

- answer (when possible)
- comments (when appropriate)
- National Curriculum reference (Programme of Study)

## Answers

These are not always hard and fast. Prices change, temperatures change and some questions depend on debate. But best of all, you and your pupils may have your own ideas about how to tackle a particular question. Jolly good too: you know them better than we do.

## National Curriculum References

The following abbreviations have been used:

Ma2 - Number

Ma3 - Shape, Space and Measures

followed by the standard notation found in the Mathematics document.

There is of course, using and applying mathematics (Ma1) throughout the trail.

If you don't already have a maths trail around your own school grounds or locality, then we hope that this trail gives you some ideas.

Meanwhile, enjoy the Botanical gardens trail and may the sun shine on you!

Written in connection with Birmingham City Council's Education Department



<b>Q</b>	<b>Answer</b>	<b>Comments</b>	<b>NC Ref/s</b>
1	Depends	Prices change and is the child under 5?	Ma2 2c
2	Wednesday		Ma2 2a, b, c 4a
3	Semi-circles		Ma3 2a
4	Depends	Temperature varies from 10 to 27 °	Ma2 2a, c Ma3 4c
5	Left	Did you say 'hello' to Jenny?	Ma3 3a, b
6	Any pattern		
7	6	....and they form a hexagon!	Ma2 2a
8	Including square, rectangle and pentagon	Note symmetrical patterns	Ma3 2ab
9	Many possibilities	If you have 6 children from your party demonstrate, there's an ideal opportunity from some practical investigations. How many patterns are possible?	Ma3 2d
10	6		Ma2 2a
11	Depends	Present year minus 1982	Ma2 2a, c 3a,d
12	Maybe 9	.....but discussion is the main point; for example, do the inner and outer edges of the fountain wall make 2 circles?	Ma2 2a Ma3 2ab