

THE OFFICIAL  
**11+**  
PRACTICE  
PAPERS

**Notes & Answers for Parents**

**MATHS PACK 2**

# Introduction

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## About the Tests

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These tests are designed to give your child practice in sitting a formal type of examination before they take the actual 11+ test.

The papers are presented in a very similar way to many of the test papers used for selection at 11+, and the questions represent the type of questions used, although they may not be exactly the same level of difficulty. Therefore, your child's scores on these tests will not necessarily be a direct indication of their likely score on an actual 11+ test. Furthermore, the pass marks for the actual test will depend, to some extent, on the overall standard of the candidates.

For further information and authoritative advice about the whole 11+ process, take a look at GL Assessment's **Official Parents' Guide to the 11+**. The complementary **11+ Explained series** for *Verbal Reasoning* and *Non-Verbal Reasoning* will help your child develop their skills in these new areas, supported by tips, practice and essential strategies for improving their test technique. Additional online support is available at [www.official11plus.co.uk](http://www.official11plus.co.uk).

## Preparation for Testing

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Give your child the test at an appropriate time, when they are both physically and mentally alert. Choose a suitable area for them to work in – make sure they can work comfortably and are free from any distractions.

Before your child takes a practice test, discuss with them the reasons why they are doing the test. Also, explain that they might find some of the questions difficult, but that they should work as quickly and as carefully as they can. If they get stuck on a question they should not waste too much time on it, but move on to the next one. If they have time left at the end, they can go back to it then.

# Taking the Tests

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Your child should record their answers in the Answer Sheets booklet provided – not in the test booklet. Answer Sheets are provided for all four tests in this pack.

The actual 11+ test will be marked by a computer, but you will need to score the familiarisation tests yourself using the Answer Key at the end of this booklet. It is important for your child to learn how to use the Answer Sheets properly, in preparation for the real test: they should record an answer in the appropriate box by drawing a clear line through it with a pencil. Mistakes should be rubbed out carefully, **not** crossed out, since in the actual test this would not be recorded correctly by the computer. You can ignore the boxes at the top marked 'Pupil Number', 'School Number' and 'Date of Birth'. These need to be filled in only in the actual selection test and are not necessary for familiarisation purposes. By experiencing these details now, your child will be more familiar with the style of the actual paper when they take the test.

## Timing a Test

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It is useful for your child to practise taking tests under timed conditions. Allow them 50 minutes for a test, but do not start timing until they have read all the instructions and/or filled in all the details at the top of their Answer Sheet.

If they have not finished at the end of 50 minutes draw a line underneath the question they are on, or draw a ring round its number, and then let them carry on. When you mark the test you will be able to see how many questions your child got right in the allocated time and how many questions overall. This will give you a good indication of whether they need to develop their speed and/or work more accurately.

Further guidance on developing your child's speed and accuracy is provided in GL Assessment's **Official Parents' Guide to the 11+**.

## Marking and Feedback

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The answers are provided on pages 4–7. Only these answers are allowed. One mark should be given for each correct answer – do not allow half marks or 'the benefit of the doubt'. Do not deduct marks for wrong answers.

The results may suggest that more practice is needed. Remember, always try to be positive and encouraging. Talk through the mistakes your child has made in a non-condemnatory way – work out together how to get the right answer.

# Answer Key

## Test 5

- |                          |               |                             |
|--------------------------|---------------|-----------------------------|
| 1. D                     | 21. 49,700    | 36. 10p and 20p             |
| 2. £69,092,045           | 22. D         | 37. 80                      |
| 3. $-18^{\circ}\text{C}$ | 23. 4         | 38. a right-angled triangle |
| 4. 21                    | 24. C         | 39. B                       |
| 5. 3                     | 25. 422       | 40. 4.8                     |
| 6. E                     | 26. rectangle | 41. 500–3t                  |
| 7. D                     | 27. 10.8      | 42. (3, 5)                  |
| 8. 840                   | 28. Cal       | 43. E                       |
| 9. D                     | 29. 55        | 44. C                       |
| 10. 0630                 | 30. 150m      | 45. B                       |
| 11. £15.92               | 31. 47.65     | 46. (6, 6)                  |
| 12. D                    | 32. 1600g     | 47. 1000                    |
| 13. 0.89                 | 33. 14,202    | 48. 7                       |
| 14. E                    | 34. D         | 49. C                       |
| 15. C                    | 35. 36p       | 50. £18.00                  |
| 16. Lisa                 |               |                             |
| 17. E                    |               |                             |
| 18. B and C              |               |                             |
| 19. A                    |               |                             |
| 20. 8                    |               |                             |

# Marking and Feedback

The answers are provided on pages 4–7. Only these answers are allowed. One mark should be given for each correct answer – do not allow re-marking or the benefit of the doubt. Do not deduct marks for wrong answers.

The marks may suggest that more practice is needed. Remember always to be positive.

## Test 6

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- |       |               |                |
|-------|---------------|----------------|
| 1. 4  | 21. B         | 36. Friday     |
| 2. C  | 22. $2a + 2b$ | 37. $70^\circ$ |
| 3. B  | 23. 2         | 38. C          |
| 4. 35 | 24. 45        | 39. 10         |
| 5. B  | 25. A         | 40. 5          |
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- |             |             |                   |
|-------------|-------------|-------------------|
| 6. 62.1     | 26. 30p     | 41. 48            |
| 7. Thursday | 27. over 60 | 42. 3.01 and 2.99 |
| 8. C        | 28. 4       | 43. evens         |
| 9. D        | 29. D       | 44. $3n - 1$      |
| 10. 1440    | 30. -3      | 45. 56m           |
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- |         |            |                |
|---------|------------|----------------|
| 11. D   | 31. 24     | 46. (11, 9)    |
| 12. 25% | 32. 20.8   | 47. $36^\circ$ |
| 13. E   | 33. 2004   | 48. Ella       |
| 14. 2   | 34. £22.50 | 49. B          |
| 15. D   | 35. 4 km   | 50. £2.30      |
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- |                        |
|------------------------|
| 16. 32.2 kg            |
| 17. square centimetres |
| 18. 8                  |
| 19. A                  |
| 20. C                  |
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# Test 7

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- |           |               |           |
|-----------|---------------|-----------|
| 1. C      | 21. A         | 36. 120ml |
| 2. D      | 22. 500 grams | 37. 36    |
| 3. D      | 23. D         | 38. 5     |
| 4. 40,824 | 24. 6         | 39. kites |
| 5. A      | 25. 10        | 40. D     |
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- |                        |        |                            |
|------------------------|--------|----------------------------|
| 6. 18.25 litres        | 26. -2 | 41. C                      |
| 7. 1 hr 10 mins        | 27. 1  | 42. $2s + c$               |
| 8. £1.75               | 28. 4  | 43. $(-2, 1)$ and $(2, 1)$ |
| 9. $6^{\circ}\text{C}$ | 29. 9  | 44. D                      |
| 10. 25.3               | 30. E  | 45. $n + 3$                |
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- |                         |                        |                   |
|-------------------------|------------------------|-------------------|
| 11. E                   | 31. C                  | 46. $1 + 2n$      |
| 12. E                   | 32. A                  | 47. 6 tins        |
| 13. 5                   | 33. 40 mins            | 48. 15m           |
| 14. 11cm                | 34. 85p                | 49. $135^{\circ}$ |
| 15. $4^{\circ}\text{C}$ | 35. triangular pyramid | 50. $20x + 30$    |
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|-------------------|
| 16. 6             |
| 17. D             |
| 18. 35.0          |
| 19. $120^{\circ}$ |
| 20. 50            |
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# Test 8

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|---------------------------|--------------------------|-----------------------|
| 1. kite                   | 21. (5, 7)               | 36. $2n + 2$          |
| 2. £20.04                 | 22. 3                    | 37. $120^\circ$       |
| 3. 7 minutes              | 23. E                    | 38. 32.48 kilometres  |
| 4. 36                     | 24. £33.00               | 39. 2                 |
| 5. C                      | 25. OXO                  | 40. A                 |
| 6. £11.75                 | 26. 18m                  | 41. $6000\text{cm}^2$ |
| 7. parallelogram          | 27. Friday               | 42. about two weeks   |
| 8. 8                      | 28. 510                  | 43. C                 |
| 9. E                      | 29. $150^\circ$          | 44. £18               |
| 10. B                     | 30. £178.80              | 45. E                 |
| 11. foxglove and helenium | 31. B                    | 46. 8 and 15          |
| 12. 45                    | 32. 3                    | 47. B                 |
| 13. 54 centimetres        | 33. mug                  | 48. B                 |
| 14. 2                     | 34. (-1, -2) and (4, -1) | 49. 16cm              |
| 15. 31                    | 35. 30                   | 50. $4 + n$           |
| 16. 36                    |                          |                       |
| 17. 1 and 6               |                          |                       |
| 18. 5                     |                          |                       |
| 19. 48                    |                          |                       |
| 20. C                     |                          |                       |