

# Notes and Answers for Parents

## Mathematics Pack 3

# Introduction

## **About the Tests**

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.

## **Preparation for Testing**

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

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

The actual 11+ test will be marked by a computer, but you will need to score the practice tests yourself using the Answer Key in 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 and **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 for the actual test. By encountering these features now, your child will be more familiar with the style of the actual 11+ paper when they take the test.

## Timing a Test

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 the 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 around 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.

## Marking and Feedback

The answers are provided on pages 4–6. 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. Always try to be positive and encouraging. Talk through the mistakes your child has made in a constructive way. Work out together how to get the right answer.

# Answer Key

## Practice Paper 7

**Question    Answer**

- 1** 28
- 2** 2 oranges,  
1 apple, 1 banana
- 3** D
- 4** 40824
- 5** 160
  
- 6** 18.25 litres
- 7** 1 hr 10 mins
- 8** £3.00
- 9** 6°C
- 10** 25.3
  
- 11** Friday
- 12**  $\frac{9}{25} = 36\%$
- 13** 5
- 14** 11 cm
- 15** 4°C
  
- 16** 6
- 17** 21
- 18** 35.0
- 19** 120°
- 20** 50

**Question    Answer**

- 21** A
- 22** 500g
- 23** D
- 24** 7
- 25** Hexagon
  
- 26** -2
- 27** 1
- 28** 4
- 29** 3 isosceles
- 30** E
  
- 31** C
- 32** A
- 33** kite
- 34** £0.85
- 35** triangular pyramid
  
- 36** 120 ml
- 37** 2 pentagons
- 38** 5
- 39** kites
- 40** D

**Question    Answer**

- 41** B
- 42** 2 hrs 18 mins
- 43** (0, 1) and (3, 4)
- 44** D
- 45** 9
  
- 46** 28m<sup>2</sup>
- 47** 6 tins
- 48** 15 m
- 49** 135°
- 50** 632

# Answer Key

## Practice Paper 8

### Question Answer

- 1 -15
- 2 £20.04
- 3 7 minutes
- 4 36
- 5 C
  
- 6 £29.90
- 7 parallelogram
- 8 8
- 9 E
- 10 B
  
- 11 foxglove and helenium
- 12 45 g
- 13 54 cm
- 14 2
- 15 31
  
- 16 36
- 17 1 and 6
- 18 5
- 19 48
- 20 C

### Question Answer

- 21 (5 , 7)
- 22 3
- 23 E
- 24 parallelogram
- 25 B
  
- 26 18 m
- 27 Friday
- 28 510
- 29 150°
- 30 £178.80
  
- 31  $\frac{1}{4}$
- 32 3
- 33 mug
- 34 (1 , 3) and (4 , 2)
- 35 30
  
- 36 1.42 m<sup>2</sup>
- 37 120°
- 38 32.5 km
- 39 9
- 40  $\frac{3}{4}$  of 40

### Question Answer

- 41 6000 cm<sup>2</sup>
- 42 about three weeks
- 43 9%
- 44 £18.00
- 45 40°
  
- 46 8 and 15
- 47 D
- 48 4 panels and 5 posts
- 49 16 cm
- 50 17 hrs, 14 mins, 24 secs

# Answer Key

## Practice Paper 9

### Question Answer

- 1 8.5 cm
- 2 3700
- 3 07:00 – 10:00
- 4  $\frac{1}{25}$
- 5 2958
  
- 6 3
- 7 April
- 8 10 km
- 9 42
- 10 13.3 cm
  
- 11 Dylan
- 12 58.82
- 13 £8.60
- 14 C
- 15 B
  
- 16 0.85 sec.,  
0.93 sec.
- 17 £1.60
- 18 85 ml
- 19 £0.80
- 20 B

### Question Answer

- 21 3744
- 22 27
- 23 £12.05
- 24 80
- 25 487
  
- 26 3
- 27 B
- 28 1.63 m
- 29 3000
- 30 3
  
- 31 B (Greyholme,  
Freeburgh,  
Highborough)
- 32 25.5 m
- 33 11:49
- 34 £0.50
- 35 28 m
  
- 36 42
- 37 square
- 38 144
- 39 9.9 minutes
- 40 69 m,  $\frac{63}{100}$  km,  
0.67 km

### Question Answer

- 41 A
- 42 08:00, 16:30
- 43 19.95 m
- 44 D
- 45  $54^\circ$
  
- 46 E
- 47 26
- 48 1.95 2.05
- 49  $126^\circ$
- 50 10