11 Plus Programme - Boost GL Maths and NVR - Course Preview

This preview is designed to show you, in some depth, the work we'll go through in this course. It covers the maths and non-verbal reasoning elements of GL 11 Plus Exams as thoroughly as possible within the time available.

Who should be doing it?

- The course is designed to boost the skills of pupils going for a GL 11 Plus Exam.
- It should be central to the work of any child preparing at home.
- It is also very useful for any child using a tutor or going to a tuition centre.
- The course covers Maths and Non-Verbal Reasoning plus it focuses on the core skills that lead to success.

N.B. This is our shortest full course. It is very intensive and ideal for those with not long to go (6-15 weeks preparation) before the exam.

Why is the course so successful?

- 40% of the marks on 11 Plus Tests are weighted towards numerical and non-verbal reasoning skills.
- With these skills making up such a large percentage of the tests, our structured course ensures you spend the correct amount of time on each area whilst achieving full coverage of all the materials.
- The course is fully planned which makes life much easier for parents than using books alone. This is especially true when time is tight.
- The course gradually introduces children to timed tests in the right way so that they build their skills and confidence as they go.
- While the course is regularly updated the core of it has been used for many years with proven success.

Who is this course right for?

This course is ideal for any pupil with around 6-15 weeks to go until the GL 11 Plus exam. The course is aimed at those commencing structured preparation rather than looking for revision or extension materials. The course is delivered in 10 parts and ideally a week would be spent on each. It could be completed in 6 weeks by working more intensively or in a more relaxed way in 15 weeks.

- No book covers the ground so completely.
- This course is fully structured, revision is built in.
- There's much less planning work for parents to do

SCROLL DOWN TO SEE COURSE EXAMPLES



Make sure you go over any mistakes that you have made!

11 Plus Programme - Boost - GL Maths and NVR - Part 2

Remember that maths skill takes time to build up. Doing a little of this work each day and making sure that times tables are practised and key concepts are revised will rapidly increase ability.

Maths

2.

3.

1. Working Accurately

> Front Sheets Accuracy t

weaknesses som These sheets come at the front of every Spot the m part of the course.

Timed Test. A They let you know please spend lot what is included in each part of the Revision of dec course.

4. <u>Area Problems:</u>

We let you know 5. 4 Rules Revisio when to approach money. You'll ha each activity and why

BODMAS. For it is important. 6. It helps you und

e questions in five minutes because are put under time pressure.

t. See if you can get them all!

z are allowing 27 minutes. To improve ies.

to improve and revise decimals.

his topic.

on four operations as they relate to

on, for others it is essential to learn. ons.

7. BODMAS Practice questions. The first ten questions are standard BODMAS questions. The second ten will stretch your reasoning skills.

Non-Verbal Reasoning

8. NVR Type 4 - Codes.

9. NVR Type 5 - Missing Sequence.

NVR Type 6 - Missing Square. Please spent revision built in. 10. question type and example before doing the five it's really important that you work out why, other wise you win nor improve:

The whole course is planned for you with

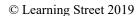
the ake,

Please sign below when you have completed everything.

Your helper may have to test you on some things.

Signed: (Parent/Teacher and Pupil).....

Please do lots of reading throughout this programme. We hope you enjoyed this part of the course.



Speed and Accuracy Test

- You have five minutes. Children should be working towards scoring 100%.
- Watch out for the changes to $+/\div/-/x$

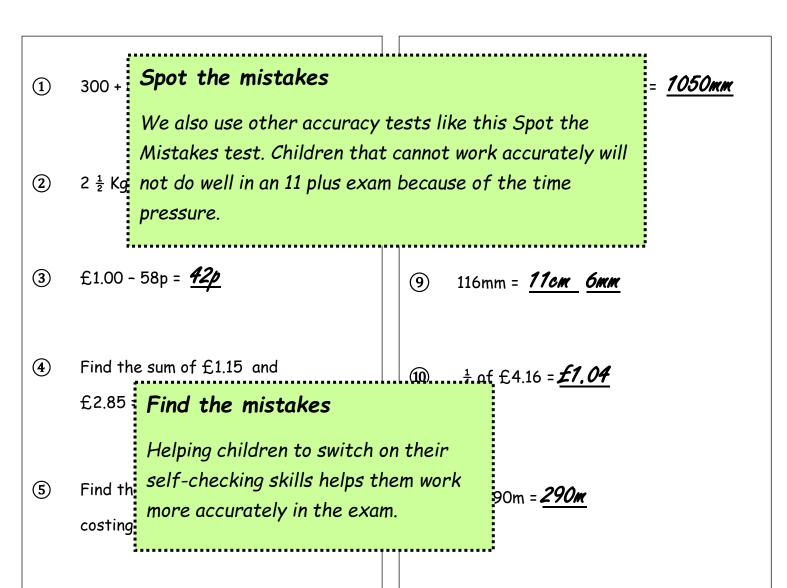
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• This test will be repeated five times, where mistakes are made it will be an indication that further times tables work and attention to detail is necessary.

8 + 7 =		9 - 4 =	6 x 7 =	54 ÷ 6 =	8 + 4 =		
7 x 5 =	Spee	d and Accur	acy Tests		=		
12 - 7 =	At the beginning of the course we spend time						
96 ÷ 8 =	, , , , , , , , , , , , , , , , , , , ,						
6 x 3 =	skills. As these skills provide the fundamental basis from which children will develop, ensuring these are						
5 + 8 =	well established will aid them during the other						
5 x 6 =	sectio	ons of the cour	rse.		=		
5 + 7 =		15 - 6 =	48 ÷ 6 =	5+4=	64 ÷ 8 =		
16 - 8 =		36 ÷ 9 =	8 + 8 =	42 ÷ 7 =	7 x 7 =		
7 x 6 =		9 - 6 =	72 ÷ 9 =	9 + 8 =	108 ÷ 9 =		
17 - 9 =	,	9 + 6 =	6 × 8 =	19 - 7 =	12 + 5 =		
8 x 3 =	Spee	d and Accur	acy Tests		1 - 7 =		
11 - 6 =	This test uses what many consider easy matris						
8 x 6 =	but is very difficult due to the time pressure. It exposes whether children have sufficiently solid						
5 x 7 =	· ·	skills and provi		•	3 - 7 =		
7 - 2 =	revisi	on for those tl	hat do.		2 ÷ 4 =		
3 + 7 =		16 - 7 =	7 + 8 =	4 × 6 =	14 - 6 =		
12 - 9 =		9 x 3 =	11 - 8 =	49 ÷ 7 =	5 + 8 =		
8 x 9 =		6 + 7 =	27 ÷ 9 =	15 - 4 =	9 x 7 =		
72 ÷ 8 =		13 - 9 =	5 x 12 =	4 + 8 =	18 - 7 =		

Spot the Mistakes - Maths

- Victor has completed his Mental Maths task but unfortunately he's made a number of mistakes. His answers are underlined.
- Circle the mistakes. See if you can work out what he might have done wrong

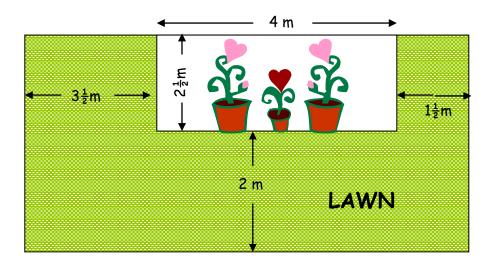


- 6 What is the product of 9 + 99 = <u>108</u>
- 12 What is the product of 8 and 50 = 58

Area Problems

A rectangular garden comprises a rectangular flowerbed surrounded on three of its sides by a lawn.

Answer the following questions which relate to this diagram.



a) Area Problems

We also make sure we cover the core topics
b) children may get questions on. This sheet is one
we use to help children learn about area.

c) arden.

d) Work out, in square metres, the area of the flowerbed.

Answer:

e) What is the area of the lawn?
Answer:

f) Find the cost of re-sowing the lawn if grass seed costs £1.86 for each square metre of lawn.

Answer: _____

The BODMAS Rule

The rule for sums containing brackets is: **BODMAS**

This means:

Bracket Over Division Multiplication Addition and Subtraction.

In other words you must work out the sum in the \boldsymbol{B} racket first, and then complete the question by doing:

Division (if required), then

Multiplication (if required), then

Addition (if required), then

Sub BODMAS

Remember This is another example of the focus we place you must on individual topic knowledge. For some

zans

ure,

so: 5(children topics will be entirely new, for others

it will act as useful re-enforcement.

Here is ar

= 12 - 3 Then **S**ubtract

= 9 **√**

Now look at this question:

BODMAS

6(2 As part of each topic introduction/review we 62 = 7.98

6 x include further work and examples to ensure

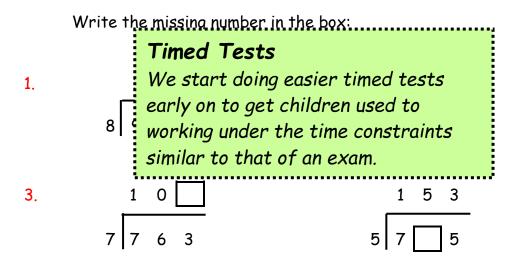
knowledge has sunk in properly.

Please rive rims away surely because you win need to refer to it again when you start your Revision papers.

PS: I bet no one in your class will know this.

TIMED TEST NUMBER 1

You have 30 minutes to complete this test.



This calculation has the same number missing from each box. What is it?

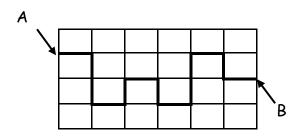
5. Timed Tests

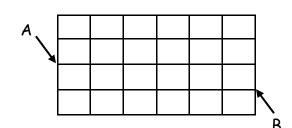
While easier than full 11 Plus tests, these tests include questions which could end up in the test itself. This is beneficial as it gets students familiar with the types of question they might encounter.

a of this alves.

this grid into two halves:

Start at A and go along the lines, finishing at B.





Mathematics Revision Test 2

1. 323.76 + 19 hundredths

= _____

- 12. 12 x 8 = _____
- 2. Draw a hexagon in this space:
- **13**. 6 x 7 = _____
- **14**. 9 × 6 = _____

 $3. 13^2 =$

15. How many tenths in 23.9?

Maths Revision Tests

Throughout the course we ensure children are using the skills they have regularly. This is an example of our regular revision test sheets. These sheets cover a great deal of the syllabus and little by little help to re-enforce knowledge and give children confidence.

4. Draw an obtuse angle - label it.

NO/YES

20. How many lines of symmetry has a hexagon?

= _____

5. Draw a rhombus

SCORE BOX:

Maths Revision Tests

With Maths it's essential that children use their skills regularly so we provide enough of these and other pages to ensure children are working at the level of frequency.

8.

19 cm

14 cm

to do long multiplication!

Find the area of this shape:

=_____

- 9. 4.9 L = _____ mls
- 10. Write 555 tenths as a decimal = _____



11. 9 squared = _____

Are you improving? YES/ANY MINUTE NOW

5. Complete the following money problems.						
a. A single bus fare to work costs £1.25. How much have I spent altogether on bus fares by the time I have returned home?						
b. If I go to the newsagent and buy 5 magazines costing £3.99 each. How						
much d c. I	 I bought in					
question Early in the course we start to give a full timed	J					
paper in each part. We ask parents to ensure						
6. Answ this is administered correctly.						
a . Six squared = e . The square root of 6	=					
b . The cube root of 27 f . Two fifths of 75kg	=					
g . 4(x + y) when x = 6.1 and y = 3	±.8 =					
=						
d . $2(p-q)$ when $p = 4.7$ and						
q = 2.3 =						
Matha Danana						
Maths Papers						
7. It Children get every opportunity to learn to complete						
a. the papers within the time allowance and the work						
b. we have done on core skills and topics means they						
should be focussed on accuracy.	·					
c.						
8. How many lines of symmetry do these shapes have? Some may have none. b c.						
a						
d						

17. When peter went to Spain recently the exchange rate was 1.2 Euros to the						
pound sterling. He bought a bottle of wine costing 6.7 Euros. What was the cost						
of the bottle in nounds sterling? (round you answer to the nearest nearly).						
Maths Paper						
We continue to work on technique throughout						
18. A fam the course but equally we ensure children have 0 li						
water. The masses of exam practice as they are asked to	water					
every 3 sec do a full maths paper or tests every week.						
erer, e ee de a fan maane paper er eeest ever, meen.						
	, <u>.</u>					
19. Which of these numbers is closest to three?						
A . 3.075 B . 3.08 C . 3.1 D . 3.089 E . 3,101						
71. 0.070						
20. Maths Paper	ver, it					
Starti	ed and					
The papers are at least as difficult as those they will						
find in the exam so they will be very well prepared. W	'e					
also ensure they see a variety of different types of						
question to ensure they are prepared for every						
eventuality.						
······································						
6.4 6.5 6.6 6.7 6.8						
22. A jar of marbles was made up like this:						

	Large	Small
Black	8	14
Red	12	16

What percentage of the marbles were small?

Non-Verbal Reasoning

1. LIKE SHAPES / TYPE 1

In these questions you will be given an example where one shape becomes another shape. You will then be given a question shape and be asked to choose which one of five

shapes it should become. You should use the example to help you choose. You should look at the pe and then apply

Like Shapes - Explanation the sa

What We identify 9 different types of non-verbal As wif reasoning question. With each we introduce it with a very detailed explanation and an example.

We explain what the questions entails and what

children need to look out for to solve it.

nd close

of they have

- What size are the shapes or items within the overall shape in relation to each other?
- What thickness or length are any lines whether these are floating or used to make up shapes? Boldness is often a feature within questions.
- Do shapes that are behind another shape change to become in front?

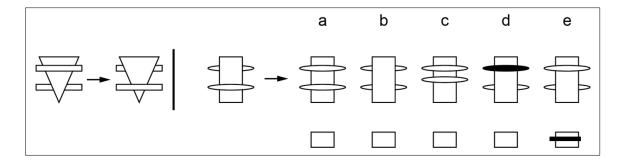
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Technique tips

obsert

- Focus exactly on how the first shape has changed to become the second shape, more than one thing may have changed.
- Make a list of the changes if necessary
- Once you have done this look at the answer options and see which has changed in the same way.
- Often you will be left with two options which are close, there will always be a small distinguishing item which makes one of these a closer match than the other (EG direction of diagonal lines within a shape). You will need to renew your focus to find it.
- Unless you are doing a timed test do one question at a time. Give your answer then check if it is correct and review the explanation. This takes time but looking at the answer and explanation while the question is still fresh is the only way to learn.

Example

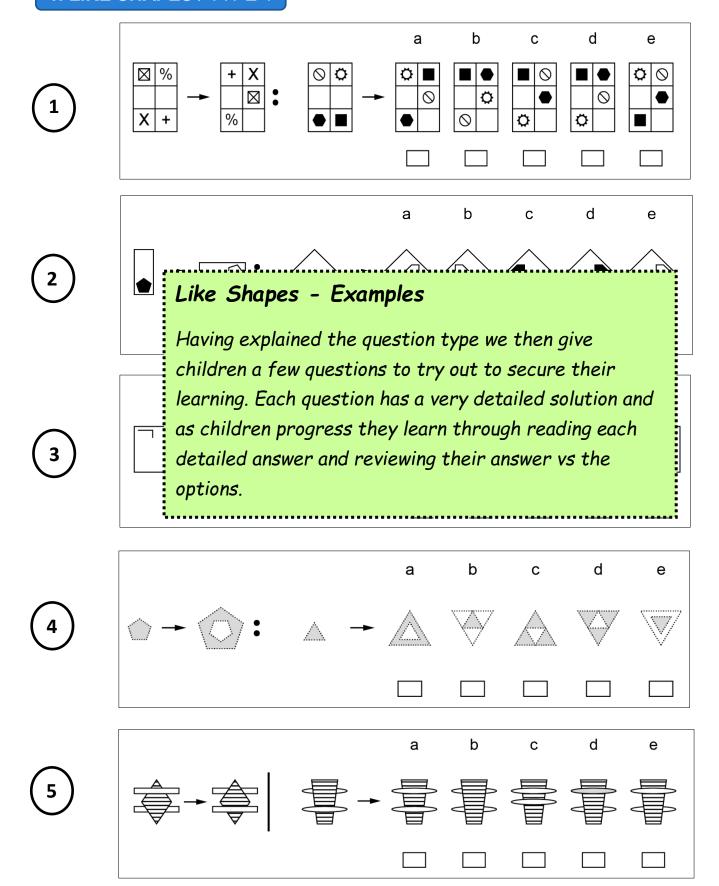


Explanation

There is no change in the large shape from the first set of shapes to the second. However the shape that is behind the larger moves to the front and the other shape that is in front moves behind.

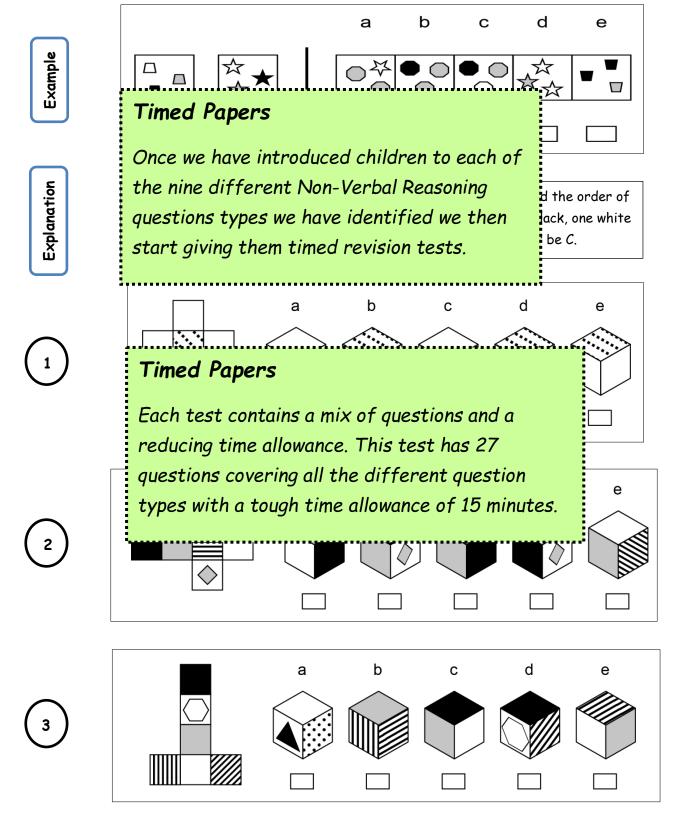
Non-Verbal Reasoning

1. LIKE SHAPES / TYPE 1



Non-Verbal Reasoning Revision

7. MOST LIKE / TYPE 7



Maths	Adding and Subtracting	8) 8			
	of Decimals	9) 6			
Speed and Accuracy	1) 29.44	10) 3			
Test	2) 84.5	11) (4+8) x (3-2)			
15 5 42 9 12	3) 424.485	12) (6+4) x8			
35 6 40 15 2	4) 125	13) 72- (8×7)+9			
5 14 63		(5 x 8)			
	Full answers for every				
18 8 84 13 5 0 auest					
30 11 16 ques t	question				
12 9 8					
8 4 16 There	are answers provid	ed for 2 4			
42 3 8 every	question in each pai	at of the (7×7)			
0 10	question in each pai	t of the			
24 56 9 5 4 3 cours	2.	- 2			
5 4 3 48 9 12					
	e a full detailed exp	lanation			
5 7 96	·	rana crom			
10 9 15 IS Nee	is needed we give it.				
3 27 3					
72 13 3					
9 4 60					
Spot the Mistakes	a) 9m	9) 1			
(1) 8 (6x7 is 42 not	b) 1 m	10) £28.60			
49)	b) 4 m	11) 98			
12)	c) 40.5m ²	12) 80%			
3 6m (there are	d) 10m ²	13) 70%			
100cm in 1m not 10cm)	e) 30.5m² 14) 50%				
4) 103m (500m - 397	f) £56.73	15) 25%			
is 103m, not 113m.		_			
Calculation error)	16) $66\frac{2}{3}$ %				
carculation error j	BODMAS practice	17) 20%			
8 3L (there are		18) 86.24			
1000ml in 1 litre not	1) 60	19) 31			
100ml)	2) 62	20) 56.35			
11) 775 minutes	3) 62	21) 19.77			
_	4) 169	22) 9			
(Misread of question, it is from 9.25 am to	5) 78	23) 44			
	6) 2	24) 11			
10.20 <u>pm</u>	7) 8	25) £1.03			

25) £1.03