### **Reigate Grammar School**



# 13+ Entrance Examination November 2013

#### **MATHEMATICS**

Non-calculator

Time allowed: 20 minutes

NAME.....

- Work through the paper carefully
- You do not have to finish everything
- You may NOT use a calculator
- Do not spend too much time on any single question
- Show any working in the spaces provided
- Use the blank left hand pages for rough work

PAGE	1	2	3	TOTAL
MARK	18	24	18	60
MARK				

## PAGE 1 ANSWER ALL QUESTIONS IN THE SPACES PROVIDED, SHOWING ANY NECESSARY WORKINGS

2013 + 598 =	2013 – 598 =	What is 2013 x 10?	DO NOT WRITE IN THIS BOX
			1 1 1
Use your previous answer to write down 2013 x 5	Use these last two answers to write down 2013 x 35	Use your previous answer to write down 201.3 x 3.5	1
			1
			1
2013 - 7 =	2013 - 70 =	2013 - 700 =	1
			1
Given that 22 x 31 = 682	What is 800 x 14 ?	What is 7000 ÷ 100?	1
What is 682 ÷ 11 ?			1
	What is 800 x 1.4?	What is 7000 ÷ 200?	1 1
What is 68200 ÷ 31?			1
What is (682+682+682) ÷ 22?	What is 80 x 0.14?	What is 7000 ÷ 25?	1 1 1

#### PAGE 2

	T		
Which of these three is	What is 10% of £300?	Find one sixth of 5400	DO NOT WRITE
the largest and which is			IN THIS
the smallest?			вох
	What is 5% of £300?		1
9% 0.07 $\frac{1}{12}$			1
	What is 2 <sup>1</sup> / <sub>2</sub> % of £300?		1
	72,001.2001	Use your answer to find	1
		five sixths of 5400	1
	Use your answers to find		1
Largest =	17 <sup>1</sup> / <sub>2</sub> % of £300		
	,2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1
Smallest =			1
Add together	Albert is 16 years old.	Write down a decimal	_
	,	between 23% and 24%	1
$\frac{1}{3}$ of 24	Cuthbert is three times		1
3	as old as Albert.		1
2			1
$\frac{2}{5}$ of 40	Egbert is $\frac{1}{6}$ of Cuthbert's		4
	egbert is $\frac{1}{6}$ of Cuthbert's		1
and $\frac{1}{2}$ of 11	age.	Write down a fraction	1 1
Z		between 3% and 5%	1
			1
	What is their total age?		1
			_
What are the next two	Put these decimals in		
numbers in these series	order, starting with the		2
	largest.		2
576, 288, 144, 72,			
	0.5, 0.056, 0.48	Milest freetier of this	
		What fraction of this	1
		flag is shaded?	
and		Have make an are	
		How many more	1
2, 5, 7, 12, 19, 31,		rectangles need to be	
		shaded to fill $\frac{2}{3}$ of the	1
		flag?	
		0-	
and			

PAGE 3

Work out $\frac{1}{4} + \frac{5}{12}$	Work out $\frac{9}{10} - \frac{2}{5}$	Add together the following, giving your answer as a DECIMAL	DO NOT WRITE IN THIS BOX
		78%, 0.507 and $\frac{1}{4}$	1
			1
			1 1 1
What is the biggest number that divides exactly into	What is the smallest number that 6, 8, and 10	Find two numbers that have a difference of 13 and add up to 21	1
35, 49 and 63?	all divide into?		1
What is 0.27 written as a fraction?	What is $\frac{1}{5}$ written as a decimal?	Name the shapes below	1 1 1
What is 0.0027 written as a fraction?	What is $\frac{1}{5000}$ written as a decimal?		1 1 1
What is 0.2727 written as a fraction?	What is $\frac{13}{5000}$ written as a decimal?		1 1