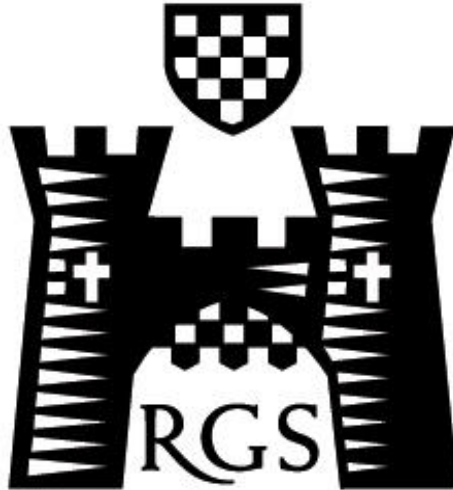# Reigate Grammar School

13+ Entrance Examination
November 2014
Non-Calculator
MATHEMATICS

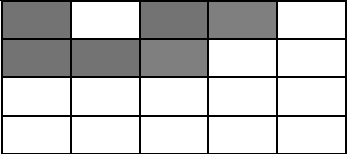**Time allowed: 20 minutes**
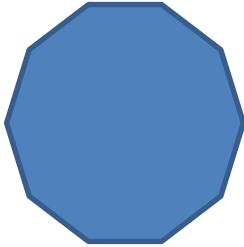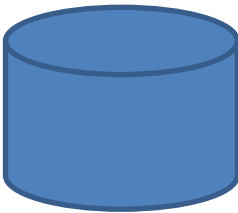
NAME……………………………………………………………………

- **Work through the paper carefully**
- ## **<u>You do not have to finish everything</u>**
- **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**
- **You may <u>not</u> use a calculator**

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

			DO NOT WRITE IN THIS BOX
2014 + 1597 =	2014 – 1597 =	What is 2014 x 100?	1 1 1
Use your previous answer to write down 2014 x 25	Use these last two answers to write down 2014 x 125	Use your previous answer to write down 2014 x 1.25	1 1 1
2014 - 9 =	2014 - 90 =	2014 - 900 =	1 1 1
Given that 27 x 37 = 999 What is 999 ÷ 27 ? What is 9990 ÷ 370? What is 1998 ÷ 37?	What is 6 x 16 ? What is 600 x 1.6? What is 6 x 0.16?	What is 6000 ÷ 100? What is 6000 ÷ 200? What is 6000 ÷ 25?	1 1 1 1 1 1 1 1 1

			DO NOT WRITE IN THIS BOX
Which of these three is the largest and which is the smallest? 70% 0.6 $\frac{5}{8}$ Largest = Smallest =	**What is 10% of £40?** **What is 20% of £40?** **What is 5% of £40?** **Use your answers to find 35% of £40**	**Find one seventh of 420** **Use your answer to find four sevenths of 420**	1 1 1 1 1 1 1 1
Add together $\frac{1}{5}$ of 40 $\frac{2}{3}$ of 27 and $\frac{1}{2}$ of 13	**Albert is 14 years old.** **Cuthbert is twice as old as Albert.** **Egbert is $\frac{1}{4}$ of Cuthbert's age.** **What is their total age?**	**Write down a percentage between 0.3 and 0.4** **Write down a fraction between 12% and 14%**	1 1 1 1 1 1 1 1 1
What are the next two numbers in these series 2, 6, 18, 54, …….. and 2, 6, 12, 20, 30, 42,….. and	**Put these decimals in order, starting with the largest.** 0.075, 0.8, 0.09	 **What fraction of this flag is shaded?** **How many more rectangles need to be shaded to fill $\frac{4}{5}$ of the flag?**	2 2 1 1 1

Work out $$\frac{1}{3} + \frac{5}{12}$$	Work out $$\frac{17}{18} - \frac{7}{9}$$	Add together the following, giving your answer as a DECIMAL 81%, 0.628 and $\frac{1}{8}$	DO NOT WRITE IN THIS BOX 1 1 1 1 1 1 1
What is the biggest number that divides exactly into 63, 36 and 108?	What is the smallest number that 4, 5, and 6 all divide into?	Find two numbers that have a difference of 14 and add up to 26	1 1 1
What is 0.9 written as a fraction? What is 0.009 written as a fraction? What is 0.909 written as a fraction?	What is $\frac{3}{4}$ written as a decimal? What is $\frac{3}{400}$ written as a decimal? What is $\frac{9}{400}$ written as a decimal?	Name the shapes below 	1 1 1 1 1 1 1 1