

# Reigate Grammar School



## 13+ Entrance Examination November 2015

### MATHEMATICS

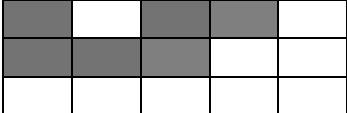
Time allowed: 20 minutes

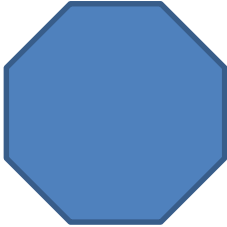
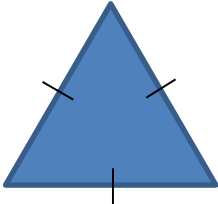
NAME.....

- Work through the paper carefully
- **You do not have to finish everything**
- 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 not use a calculator

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

<b>2015 + 888 =</b>	<b>2015 – 888 =</b>	<b>What is 2015 x 1000?</b>	<b>DO NOT WRITE IN THIS BOX</b>  <b>1</b> <b>1</b> <b>1</b>
<b>Use your previous answer to write down 2015 x 250</b>	<b>Use your previous answer(s) to write down 2015 x 750</b>	<b>Use your previous answer to write down 2015 x 7.5</b>	<b>1</b> <b>1</b> <b>1</b>
<b>2015 - 7 =</b>	<b>2015 - 70 =</b>	<b>2015 - 700 =</b>	<b>1</b> <b>1</b> <b>1</b>
<b>Given that 41 x 271 = 11111</b>  <b>What is 11111 ÷ 41 ?</b>  <b>What is 22222 ÷ 271?</b>  <b>What is 99999 ÷ 123?</b>	<b>What is 5 x 19 ?</b>  <b>What is 50 x 190?</b>  <b>What is 0.5 x 0.19?</b>	<b>What is 8000 ÷ 100?</b>  <b>What is 8000 ÷ 400?</b>  <b>What is 8000 ÷ 50?</b>	<b>1</b> <b>1</b> <b>1</b>  <b>1</b> <b>1</b> <b>1</b>  <b>1</b> <b>1</b> <b>1</b>

<p>Which of these three is the largest and which is the smallest?</p> <p>35% 0.42 <math>\frac{2}{5}</math></p> <p>Largest =</p> <p>Smallest =</p>	<p>What is 10% of £90?</p> <p>What is 30% of £90?</p> <p>What is 5% of £90?</p> <p>Use your answers to find 35% of £90</p>	<p>Find one sixth of 540</p> <p>Use your answer to find five sixths of 540</p>	<p>DO NOT WRITE IN THIS BOX</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>
<p>Add together</p> <p><math>\frac{1}{4}</math> of 60</p> <p><math>\frac{3}{5}</math> of 25</p> <p>and <math>\frac{1}{2}</math> of 11</p>	<p>Joubert is 15 years old.</p> <p>Norbert is four times as old as Joubert.</p> <p>Egbert is <math>\frac{1}{3}</math> of Norbert's age.</p> <p>What is their total age?</p>	<p>Write down a percentage between 0.7 and 0.8</p> <p>Write down a fraction between 90% and 95%</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>
<p>What are the next two numbers in each of these series</p> <p>3, 9, 27, 81, .....</p> <p>and</p> <p>1, 2, 3, 5, 8, 13,.....</p> <p>and</p>	<p>Put these decimals in order, starting with the largest.</p> <p>0.6, 0.508, 0.09</p>	 <p>What fraction of this flag is shaded?</p> <p>How many more rectangles need to be shaded to fill <math>\frac{2}{3}</math> of the flag?</p>	<p>2</p> <p>2</p> <p>1</p> <p>1</p> <p>1</p>

<p>Work out</p> $\frac{1}{4} + \frac{3}{20}$	<p>Work out</p> $\frac{19}{21} - \frac{4}{7}$	<p>Add together the following, giving your answer as a DECIMAL</p> <p>20%, 1.47 and <math>\frac{3}{5}</math></p>	<p>DO NOT WRITE IN THIS BOX</p> <p>1 1  1 1  1 1 1</p>
<p>What is the biggest number that divides exactly into 39, 91 and 52?</p>	<p>What is the smallest number that 4, 6, and 7 all divide into?</p>	<p>Find two numbers that have a difference of 7 and add up to 35</p>	<p>1 1 1</p>
<p>What is 0.3 written as a fraction?</p> <p>What is 0.03 written as a fraction?</p> <p>What is 0.33 written as a fraction?</p>	<p>What is <math>\frac{1}{8}</math> written as a decimal?</p> <p>What is <math>\frac{1}{800}</math> written as a decimal?</p> <p>What is <math>\frac{3}{800}</math> written as a decimal?</p>	<p>Name the shapes below</p>  	<p>1 1 1  1 1 1  1 1</p>