

### REIGATE GRAMMAR SCHOOL

# 13+ Entrance Examination 2018 MATHEMATICS

#### Paper I

## Non-Calculator Paper

Time Allowed: 30 minutes

Name:	
ivame:	

- Calculators are **NOT** allowed.
- Work through the paper carefully.
- Do not spend too much time on any single question.
- Show any working clearly in the spaces provided marks may be lost if there is not enough working.
- You do not have to finish everything.

#### Total Marks Available = 40

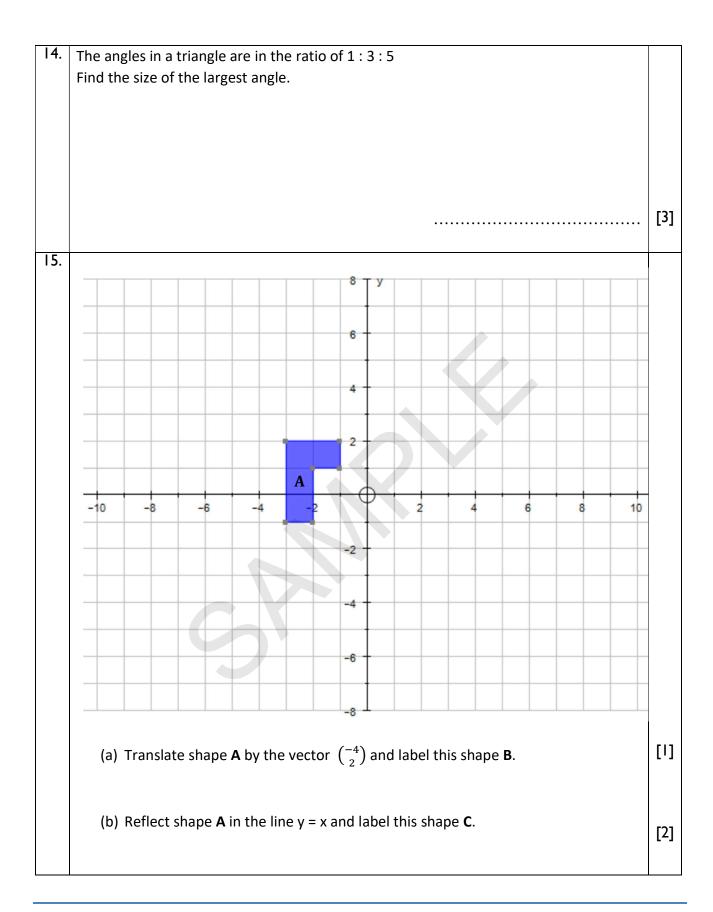
Page	2	3	4	5	6	Total
Marks						
Out of	7	10	8	9	6	40

Percentage	
65%	
	[
•••••	
	[
	[

4.	(a) What are the next two terms in the sequence:	
	13 10 7 4	[2]
	(b) Write down an expression for the $n^{th}$ term of this sequence.	
		[2]
	(c) What will be the 100 <sup>th</sup> term in this sequence?	
	(-)	
		[2]
5.	What is 23% of 64?	
		[3]
6.	What is the largest number that divides exactly into 57, 76 and 114?	
		[1]

7.	Put these three quantities in order of size, from smallest to largest.			
	You must show your working out.			
	$\frac{1}{5}$ 0.19 0.21%			
		[2]		
	Smallest Largest			
9.	Aaron is 24 years old. Ben is $\frac{2}{3}$ of Aaron's age. Cameron is $\frac{3}{8}$ of Aaron's age.			
	What is their total age?			
		[3]		
10.	Calculate: 0.47 × 3.9			
	0. <del>1</del> 7 X 3.7			
		[3]		
		1		

П.	What fraction is half way between $\frac{1}{7}$ and $\frac{1}{9}$ ?	
		[2]
12.	Work out the following, making sure to show all of your steps and giving your answer	
	in it's simplest form.	
	(a) $2\frac{2}{3} - 1\frac{5}{7}$	
	(4) - 3 - 7	
		[3]
	(b) $2\frac{1}{4} \div \frac{5}{8}$	
	(6) 2 4 8	
		[3]
13.	What number could replace $\blacksquare$ so that the value of $\frac{\blacksquare}{6}$ lies between 3 and 4?	
	what number could replace a so that the value of 6 lies between 3 and 1:	
		[۱]



#### **END OF TEST**