

THIS PAPER MUST **NOT**  
BE TAKEN FROM THE  
EXAMINATION ROOM



KING EDWARD'S SCHOOL

B I R M I N G H A M

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ADMISSION EXAMINATION

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**MATHEMATICS**

**Section A**

This  
sample paper  
shows only a few  
example questions.

The actual paper  
will contain more  
questions.

- **Total time allowed for both papers (sections A and B) is 1 hour and each section is worth 50 marks.**
- As a rough guide we suggest that you spend about 30 minutes on each section.
- The questions in this section are **MULTIPLE-CHOICE**.
- You will get marks for the correct answer,  
**but you will have MARKS DEDUCTED if you pick a wrong answer.**
- If you are not sure about an answer then you may leave it blank if you wish,  
and no marks will be deducted.
- No calculators are allowed.
- You may use the blank space on this paper for any of your working out, but when  
this booklet is collected it will be destroyed and **not form part of your work.**

**A1**  
(1 mark)

What number is 1000 more than 56821?

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
55821	58621	67821	57921	57821

**A2**  
(1 mark)

What number is 0.02 more than 16.99?

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
17.09	18.01	16.97	17.01	17.019

**A3**  
(1 mark)

What is the smallest number that you can make using the digits 4, 3, 9 and 1? Use each digit only once.

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
9413	1349	4319	1439	1934

**A4**  
(1 mark)

$8888 + 666 + 44 + 2$

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
9602	9600	9700	960	96020

**A5**  
(1 mark)

$54321 - 12345$

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
41967	42976	41976	41966	41956

<b>A6</b> (1 mark)	I start counting at 19 and go up to 89. I take one second to say each number. How long do I take altogether?				
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
	70 seconds	71 seconds	72 seconds	73 seconds	74 seconds

<b>A7</b> (1 mark)	What number must be added to 79 to give the result 2100?				
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
	1931	2021	2121	1310	1121

<b>A8</b> (2 marks)	Two shapes are congruent if they are identical in size and shape.				
	Which pair of shapes shown here are congruent?				
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
	B and C	B and D	A and D	A and B	A and C

<b>A9</b> (2 marks)	What is the difference between the missing digits in this calculation?				
	$\begin{array}{r} 3 \square 7 \\ - 2 5 \square \\ \hline 8 9 \end{array}$				
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
	5	2	0	8	4

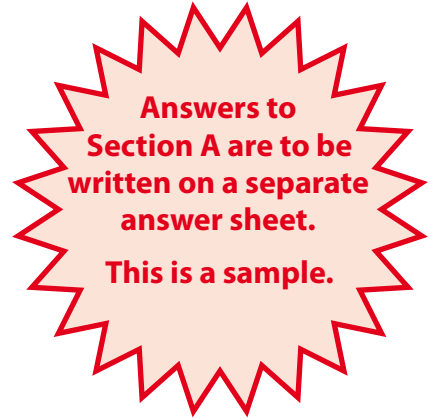
**Section "A" exam paper ends here.  
Please move on to start the Section "B" exam paper,  
which is located in a separate booklet.**



12345-67890



KING EDWARD'S SCHOOL  
BIRMINGHAM



Mathematics Entrance Exam Multiple Choice Answer Sheet

Candidate Number: 5555

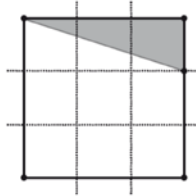
Full Name: \_\_\_\_\_

Current School: \_\_\_\_\_



**Example question:**

What fraction of this square is shaded?



A	B	C	D	E
$\frac{1}{5}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{6}$	$\frac{3}{20}$

Shade the correct answer bubble using a pencil. If you want to change your mind then fully erase your first answer before shading another.

Example Answer



Shade in your answers to the question paper here - answers circled or ticked may not be counted. Things written on the multiple choice question paper will also not be marked.



- A  B  C  D  E
- A  B  C  D  E
- A  B  C  D  E
- A  B  C  D  E
- A  B  C  D  E

**!!EXAMPLE ONLY!!**

**The real exam will  
have more  
questions**





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ADMISSION EXAMINATION

This sample paper shows only a few example questions. The actual paper will contain more questions.

Your name (in full) .....

Your candidate number .....

Name of your present school .....

**MATHEMATICS**

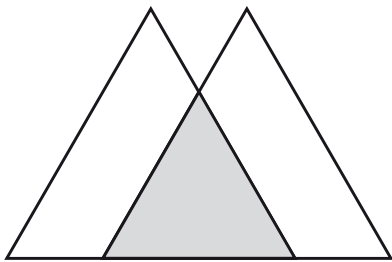
**Section B**

- **Total time allowed for both papers (sections A and B) is 1 hour and each section is worth 50 marks.**
- As a rough guide we suggest that you spend about 30 minutes on each section.
- There are **NO multiple-choice questions** in this section.
- There is **no penalty** for writing a wrong answer in this section.
- Write your answers in the spaces provided and show all of your working.
- You may use the blank space beside the question and in the margins for any of your working out.
- You will get marks for anything that is mathematical so put down whatever you can to try to solve them.
- They are meant to be hard, so don't worry if you don't get them all. Just put down as much maths as you think is relevant.
- No calculators are allowed.

Answers to Section B are to be written on the question paper, not on a separate answer sheet.

**B1**

The figure shows two identical overlapping triangles. Four-ninths of **each** triangle is shaded. What fraction of the **whole** figure is shaded?



**Answer:** .....

**B2**

A crossnumber is like a crossword, but with digits in place of letters. One digit goes in each small square and there are **no zeros**. Complete this crossnumber.

	1	2
3		
4		

- Across Clues**
- 1. Square number
  - 4. A multiple of 16
- Down Clues**
- 2.  $2 \times 1$  across
  - 3. A cube

**B3**

Write the correct digit in each box.

(a)

$$\begin{array}{r} 1 \quad 1 \quad 1 \quad \square \\ - \quad \square \quad 1 \quad 1 \\ \hline 1 \quad \square \quad \square \end{array}$$

(b)

$$\begin{array}{r} 6 \quad \square \quad \square \\ 7 \overline{) \square \quad 4 \quad \square \quad 6} \end{array}$$