



KING EDWARD'S SCHOOL

B I R M I N G H A M

ADMISSION EXAMINATION

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, and you will **NOT** have marks deducted if you get an answer wrong.
- 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?

A	B	C	D	E
55821	58621	67821	57921	57821

A2
(1 mark) What number is 0.02 more than 16.99?

A	B	C	D	E
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.

A	B	C	D	E
9413	1349	4319	1439	1934

A4
(1 mark) $8888 + 666 + 44 + 2$

A	B	C	D	E
9602	9600	9700	960	96020

A5
(1 mark) $54321 - 12345$

A	B	C	D	E
41967	42976	41976	41966	41956

A6 (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?				
	A	B	C	D	E
	70 seconds	71 seconds	72 seconds	73 seconds	74 seconds

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

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

A	B	C	D	E
B and C	B and D	A and D	A and B	A and C

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

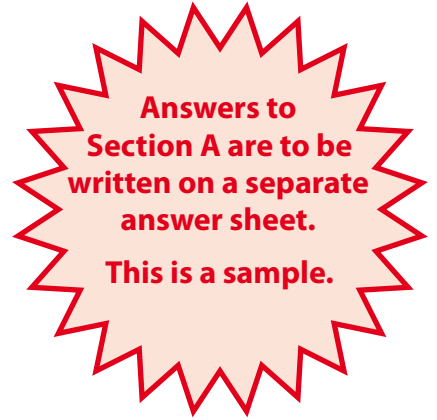
**Section "A" exam paper ends here.
Please move on to start the Section "B" exam paper,
which is located in a separate booklet.**



12345-67890



KING EDWARD'S SCHOOL
BIRMINGHAM



Mathematics Entrance Exam Multiple Choice Answer Sheet

Candidate Number: 5555

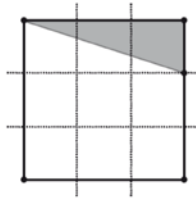
Full Name: _____

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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B I R M I N G H A M

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

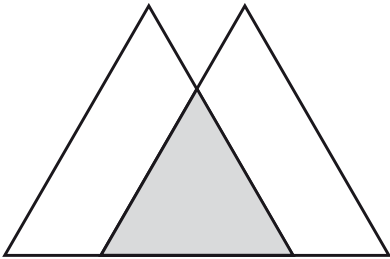
Section B

- **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.
- 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. 2×1 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)

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

Section "B" exam paper ends here