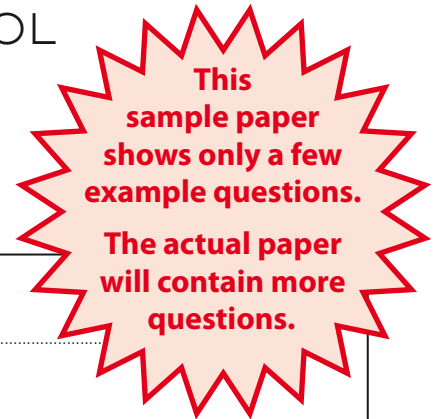




KING EDWARD'S SCHOOL

B I R M I N G H A M

ADMISSION EXAMINATION



Your name (in full)

Your candidate number

Name of your present school

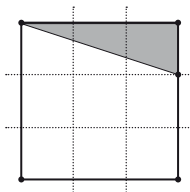
MATHEMATICS SAMPLE PAPER

Sections A and B

- **Total time allowed for both papers (sections A, B and C) is 1 hour and each section is worth 100 marks.**
- As a rough guide we suggest that you spend about 20 minutes on each section.
- The questions in this paper are **MULTIPLE-CHOICE** (see the example question below).
- 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 beside the question and in the margins for any of your working out.

Example question:

What fraction of this square is shaded?



Put a tick in the box below your chosen answer				
A	B	C	D	E
$\frac{1}{5}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{6}$	$\frac{3}{20}$
			✓	

The person answering this question thinks the answer is choice **D** and so has put a **tick** in this box.

A

You may use the blank space beside the question and in the margins for any of your working out.

Section A is worth 100 marks

A1
(3 marks)

What number is 1000 more than 56821?

Put a **tick** in the **box below** your chosen answer

A	B	C	D	E
55821	58621	67821	57921	57821

A2
(3 marks)

What number is 0.02 more than 16.99?

Put a **tick** in the **box below** your chosen answer

A	B	C	D	E
17.09	18.01	16.97	17.01	17.019

A3
(3 marks)

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

Put a **tick** in the **box below** your chosen answer

A	B	C	D	E
9413	1349	4319	1439	1934

A4
(3 marks)

$8888 + 666 + 44 + 2$

Put a **tick** in the **box below** your chosen answer

A	B	C	D	E
9602	9600	9700	960	96020

A5
(3 marks)

54321 – 12345

Put a **tick** in the **box** below your chosen answer

A	B	C	D	E
41967	42976	41976	41966	41956

A6
(3 marks)

I start counting at 19 and go up to 89.
I take one second to say each number.
How long do I take altogether?

Put a **tick** in the **box** below your chosen answer

A	B	C	D	E
70 seconds	71 seconds	72 seconds	73 seconds	74 seconds

A7
(3 marks)

What number must be
added to 79 to give
the result 2100?

Put a **tick** in the **box** below your chosen answer

A	B	C	D	E
1931	2021	2121	1310	1121

B

You may use the blank space beside the question and in the margins for any of your working out.

Section B is worth 100 marks

B1
(5 marks)

An oak tree was planted in the year in which Lord Owlynose was born. He died in 1940, aged 80. How old was the oak tree in 2011?

Put a tick in the box below your chosen answer

A	B	C	D	E
150	151	152	153	155

B2
(5 marks)

Here are three numbers and two operations on five cards.



Which of these gives the answer 15?

Put a tick in the box below your chosen answer

A	B	C	D	E
$24 \div 7 + 3$	$3 + 7 \div 24$	$7 + 3 \div 24$	$3 \div 7 + 24$	$24 \div 3 + 7$

B3
(5 marks)

I want to cut out a circle radius 6 cm from a square piece of card. What is the area of the smallest square I can use?

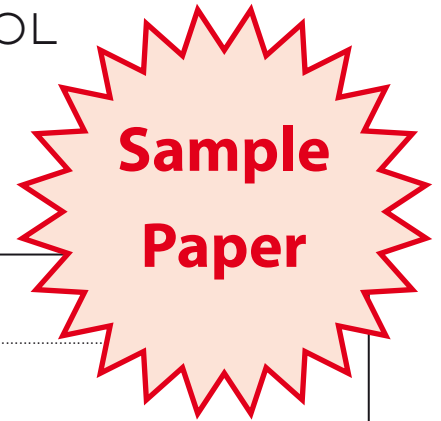
Put a tick in the box below your chosen answer

A	B	C	D	E
144 cm^2	48 cm^2	36 cm^2	9 cm^2	impossible to say



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Your name (in full)

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MATHEMATICS SAMPLE PAPER

Section C

- **Total time allowed for both papers (sections A, B and C) is 1 hour and each section is worth 100 marks.**
- As a rough guide we suggest that you spend about 20 minutes on each section.
- There are **NO multiple-choice questions** in this section.
Write your answers in the spaces provided.
- There is **no penalty** for writing a wrong answer in this section.
- There are only 4 questions – but they are tricky!
Don't give up and **show all of your working**.
- 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.
- You may use the blank space beside the question and in the margins for any of your working out.

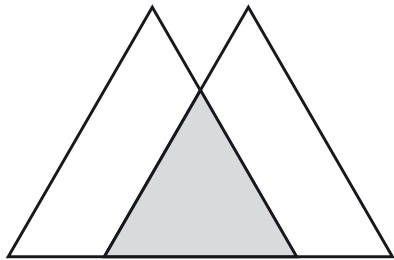
C

You may use the blank space beside the question and in the margins for any of your working out.

Section C is worth 100 marks

C1
(25 marks)

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



Answer _____

C2
(25 marks)

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

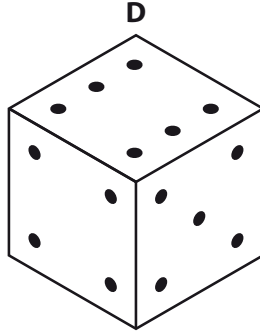
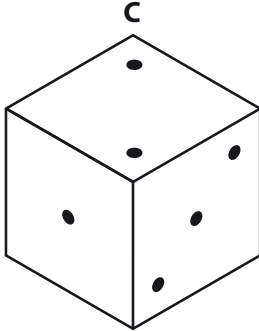
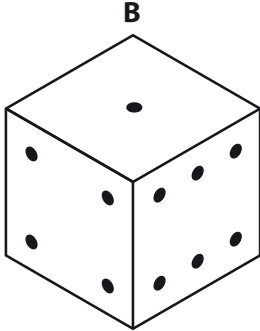
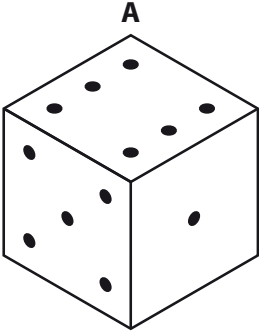
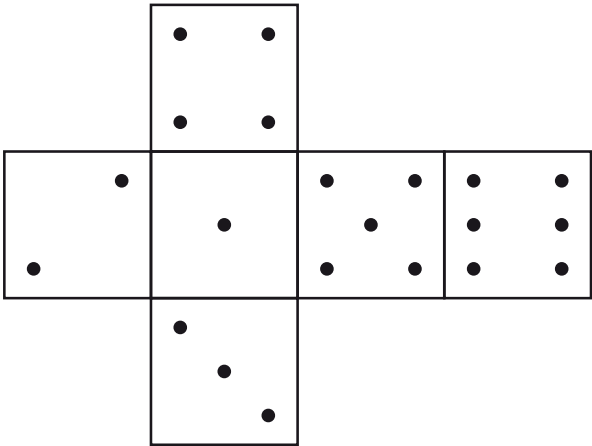
1. Square number
4. A multiple of 16

Down Clues

2. 2×1 across
3. A cube

C3
(25 marks)

Which of the dice below can be made from this net?



Answer _____

C4
(25 marks)

Woody organised a quiz night in the toy room. He asked 25 questions.

For each correct answer you gained 4 points.

For each incorrect answer you lost 2 points.

For each question you did not attempt you scored 0 points.

Rex answered all but one of the questions and got a score of 66 points.

How many correct answers did he have?

Answer_____