

II+ for 2021 entry
Pre-test for 2023 entry
Specimen Paper 2021

MATHEMATICS

50 minutes to complete **both** Section A **and** Section B

SECTION B

You are advised to spend approximately 30 minutes on this section.

- I. Do all your written work on this question paper.
- 2. Calculators must not be used.
- 3. Attempt all questions in Section B.

Surname:			
First names:			

QUESTION I

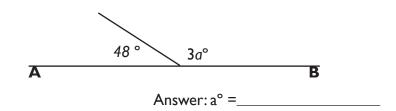
(i)	Work out 273 x 23.	
(ii)	Work out 595 ÷ 17.	Answer:
(iii)	Write down two multiples of 2001.	Answer:
		Answer:
(iv)	Write down two factors of 2001.	Answer:
,		Answer:
		Answer:
(v)	Find the cost of 31 litres of petrol at 81p per litre.	
		Answer:
(vi)	In a 'third off' sale a bike is sold for £114. How much would it have sold for before the sale?	
		Answer:

QUESTION 2

(i) In 25 minutes, through what angle does the minute hand of a clock pass?

Answer:

(ii) In the diagram AB is a straight line. Calculate the value of angle a°.



- (iii) A square has a perimeter of 96cm.
 - (a) Calculate the length of one side.

Answer: length =_____

(b) Find the area of the square.

Answer: area =_____

(c) Give a sketch, not to scale, of a rectangle, showing the length of its sides, which has the same area as the square.

Answer: length =_____

(d) Find the perimeter of your rectangle.

Answer: perimeter =_____

QUESTION 3

The pie chart shows the favourite colour of some boys. blue red 76° 84° green yellow Calculate the value of x. (a) Answer: _____ Red is the favourite colour of 126 boys. Calculate the number of boys whose favourite colour is: (b) (i) green. Answer:_____ yellow. (ii) Answer: _____ (iii) not blue. Answer: _____ Calculate the total number of boys. (c)

Answer:____

QUESTION 4

Here is a pattern of number

Row I:
$$I + 2^2 = 5$$

Row
$$2:2 + 3^2 = 11$$

Row
$$3:3 + 4^2 = 19$$

(a)	Write	out the	next tv	vo rows.
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Answer:	
/ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	

NOW GO BACK AND CHECK YOUR WORK

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