



KING'S COLLEGE SCHOOL
WIMBLEDON

11+ for 2017 entry
Pre-test for 2019 entry

Specimen Paper 2017

MATHEMATICS

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

SECTION A

You are advised to spend approximately 20 minutes on this section.

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

Surname:

.....

First names:

.....

1. Find the sum of 337 and 765.

Answer: _____

2. Find the difference between 9347 and 2985.

Answer: _____

3. Write £87 to the nearest £5.

Answer: _____

4. Write 3284mm in metres.

Answer: _____

5. What is the value of the 6 in the decimal 0.264?

Answer: _____

6. Calculate how many seconds there are in $15\frac{1}{2}$ hours.

Answer: _____

7. Find the mean average of 8, 11, 15, 26.

Answer: _____

8. How many thousands are there in one million?

Answer: _____

9. Write down the next fraction in the sequence: $\frac{5}{8}$, $\frac{10}{16}$, $\frac{15}{24}$.

Answer: _____

10. Add half a million to fifty thousand.

Answer: _____

11. How much is three-sevenths of 196?

Answer: _____

12. Give all numbers which are factors of both 32 and 24.

Answer: _____

13. Write down a number between 0.3 and $\frac{2}{5}$.

Answer: _____

14. If you are facing South, what is the smaller angle you have to turn through to face North-East?

Answer: _____

Turn over

15. Find 4% of £5300.

Answer: _____

16. If it is -26.5°C in Canada and 34.5°C in Australia, what is the difference in temperature?

Answer: _____

17. A train leaves Waterloo at 11.35 and arrives in Portsmouth after one hour and thirty-eight minutes. When does it arrive?

Answer: _____

18. What is the smallest number that 2, 3, 6, 10 will all go into exactly?

Answer: _____

19. Give an example of an event which has a probability of about $\frac{1}{2}$.

Answer: _____

20. Find the greatest number of 28p stamps which can be bought for £5.

Answer: _____

END OF SECTION A



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SECTION B

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

1. 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 1

(i) Work out 273×23 .

Answer: _____

(ii) Work out $595 \div 17$.

Answer: _____

(iii) Write down two multiples of 2001.

Answer: _____

Answer: _____

(iv) Write down two factors of 2001.

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?

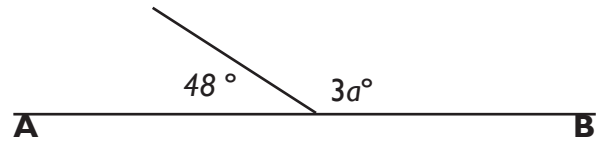
Answer: _____

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° .



Answer: $a^\circ =$ _____

- (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.

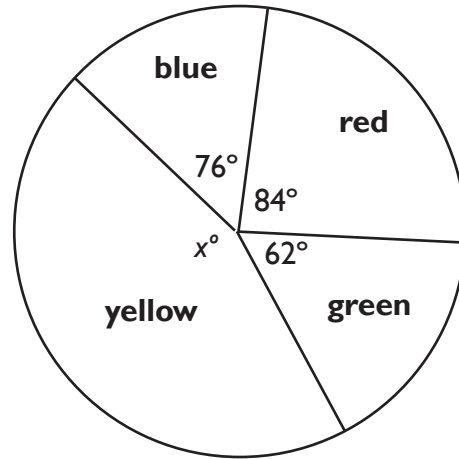
Answer: length = _____

- (d) Find the perimeter of your rectangle.

Answer: perimeter = _____

QUESTION 3

The pie chart shows the favourite colour of some boys.



- (a) Calculate the value of x .

Answer: _____

Red is the favourite colour of 126 boys.

- (b) Calculate the number of boys whose favourite colour is:

- (i) green.

Answer: _____

- (ii) yellow.

Answer: _____

- (iii) not blue.

Answer: _____

- (c) Calculate the total number of boys.

Answer: _____

QUESTION 4

Here is a pattern of numbers.

$$\text{Row 1: } 1 + 2^2 = 5$$

$$\text{Row 2: } 2 + 3^2 = 11$$

$$\text{Row 3: } 3 + 4^2 = 19$$

(a) Write out the next two rows.

Answer: Row 4:

Answer: Row 5:

(b) Write out Row 9.

Answer: Row 9:

(c) Write out Row 49.

Answer: Row 49:

(d) Find the row which ends 419.

Answer: _____

(e) What is the general rule to describe each row if you call the row number n ?

Answer: _____

NOW GO BACK AND CHECK YOUR WORK