

IGCSE Edexcel Past Papers

MATHEMATICS A

Paper 1FR
2015 — Winter 2019

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1 - (4MA0-S 2015-Paper 1FR-Q1) - NUMBER

The table shows the numbers of performances of six musicals on Broadway, New York.

Musical	Number of performances
A Chorus Line	6137
Miss Saigon	4092
42nd Street	3486
Cats	7485
Les Misérables	6680
Grease	3388

(a) Write the number 6137 in words.

.....
(1)

(b) Which number in the table is the largest number?

.....
(1)

(c) Write down the value of the 9 in the number 4092

.....
(1)

(d) Which number in the table is a multiple of 10?

.....
(1)

(e) The number of performances of one musical, when written correct to the nearest hundred, is 3400
Write down the musical.

.....
(1)

(Total for Question is 5 marks)

2 - (4MA0-S 2015-Paper 1FR-Q4) - NUMBER

Here is a sequence of patterns made from dots.



Pattern
number 1



Pattern
number 2



Pattern
number 3

(a) In the space below, draw Pattern number 4

(1)

This rule can be used to find the number of dots in a pattern of the sequence.

Multiply the Pattern number by 3 and then add 2

(b) Work out the number of dots in Pattern number 7

(2)

A pattern has exactly 41 dots.

(c) Work out the Pattern number.

(2)

T is the number of dots in Pattern number n .

(d) Write down a formula for T in terms of n .

(3)

(Total for Question is 8 marks)

exam
m (A+) te

3 - (4MA0-S 2015-Paper 1FR-Q6) - NUMBER

Simon wants to buy a computer.

He can choose to pay the cash price of £520 or pay by using the credit option.

Credit Option

First pay £100
and then 6 monthly payments of £78.24

Work out the difference in cost between the cash price and the credit option.

£.....

(Total for Question is 3 marks)

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4 - (4MA0-S 2015-Paper 1FR-Q7) - NUMBER

The table shows the maximum and minimum temperatures recorded in 5 cities during one year.

City	Maximum temperature ($^{\circ}\text{C}$)	Minimum temperature ($^{\circ}\text{C}$)
Paris	32	- 4
Sydney	38	8
Ottawa	21	- 17
Helsinki	22	- 16
New York	34	- 12

(a) In which city was the lowest temperature recorded?

.....
(1)

(b) Work out the difference between the maximum temperature and the minimum temperature recorded in New York.

..... $^{\circ}\text{C}$
(2)

In the same year, the minimum temperature recorded in Oslo was 7°C lower than the minimum temperature recorded in Helsinki.

(c) Work out the minimum temperature recorded in Oslo that year.

..... $^{\circ}\text{C}$
(2)

(Total for Question is 5 marks)

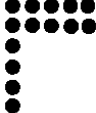
ANSWERS

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1 - (4MA0-S 2015-Paper 1FR-Q1) - NUMBER

(a)		Six thousand one hundred and thirty seven
(b)		7485
(c)		90
(d)		6680
(e)		Grease

2 - (4MA0-S 2015-Paper 1FR-Q4) - NUMBER

(a)		
(b)	$7 \times 3 + 2$	23
(c)	$(41 - 2) \div 3$	13
(d)		$T = 3n + 2$

3 - (4MA0-S 2015-Paper 1FR-Q6) - NUMBER

	$(78.24 \times 6) (= 469.44)$ "469.44" + 100 - 520	49.44
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4 - (4MA0-S 2015-Paper 1FR-Q7) - NUMBER

(a)		Ottawa
(b)	$34 - -12$	46
(c)	$-16 - 7$	-23

5 - (4MA0-S 2015-Paper 1FR-Q10) - NUMBER

(a)		$\frac{3}{4} \frac{13}{16} \frac{7}{8} \frac{11}{12}$
(b)	$\frac{2}{5} \times \frac{7}{6}$ or $\frac{1}{5} \times \frac{7}{3}$	show
(c)	eg $\frac{2 \times 6}{5 \times 6} - \frac{1 \times 5}{6 \times 5}$	show

6 - (4MA0-S 2015-Paper 1FR-Q12) - NUMBER

(a)	85×98	8330
(b)	$784 \div 98 \times 60$ oe	480

7 - (4MA0-S 2015-Paper 1FR-Q16) - NUMBER

	$56.25 \div 15$	
		3.75

8 - (4MA0-W 2015-Paper 1FR-Q1) - NUMBER

(a)		14 026
(b)		6500
(c)		2000
(d)	$650 - 282$	368
(e)	$484 + 346$	830