

IGCSE Edexcel Past Papers

# MATHEMATICS A

Paper 3HR

2015 — Winter 2019

Chapter 1	<b>NUMBER</b>	Page 1
Chapter 2	<b>ALGEBRA</b>	Page 30
Chapter 3	<b>FUNCTIONS &amp; GRAPHS</b>	Page 60
Chapter 4	<b>MENSURATION</b>	Page 75
Chapter 5	<b>GEOMETRY</b>	Page 88
Chapter 6	<b>TRIGONOMETRY</b>	Page 113
Chapter 7	<b>SETS</b>	Page 121
Chapter 8	<b>STATISTICS</b>	Page 124
Chapter 9	<b>PROBABILITY</b>	Page 144
Chapter 10	<b>VECTORS</b>	Page 157
Chapter 11	<b>MATRICES</b>	-----
Chapter 12	<b>TRANSFORMATION</b>	Page 161
Chapter 13	<b>DIFFERENTIATION &amp; KINEMATICS</b>	Page 168
	<b>ANSWERS</b>	Page 173

1 - (4MA0-W 2015-Paper 3HR-Q1) - NUMBER

In a school, there is a total of 640 children.  
The ratio of the number of girls to the number of boys is 7 : 9  
How many boys are there in this school?

.....  
(Total for Question is 2 marks)

2 - (4MA0-W 2015-Paper 3HR-Q2) - NUMBER

(a) Use your calculator to work out the value of

$$125^2 + \frac{173}{9.3 - 6.8}$$

Give your answer as a decimal.

.....  
(2)

(b) Write your answer to part (a) correct to 3 significant figures.

.....  
(1)

(Total for Question is 3 marks)

3 - (4MA0-W 2015-Paper 3HR-Q8) - NUMBER

Lisa sees a dress in a sale.

The normal price of the dress is \$45

The price of the dress is reduced by 12% in the sale.

(a) Work out the price of the dress in the sale.

\$ .....  
(3)

Lisa's weekly pay increases from \$525 to \$546

(b) Calculate her percentage pay increase.

..... %  
(3)

(Total for Question is 6 marks)

4 - (4MA0-W 2015-Paper 3HR-Q9) - NUMBER

Show that  $7\frac{1}{2} - 4\frac{2}{3} = 2\frac{5}{6}$

(Total for Question is 3 marks)

5 - (4MA0-W 2015-Paper 3HR-Q13) - NUMBER

Given that  $A = 2^3 \times 3$  and  $B = 2^2 \times 3^2$

find the Lowest Common Multiple (LCM) of  $A$  and  $B$ .

(Total for Question is 2 marks)

# ANSWERS

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1 - (4MA0-W 2015-Paper 3HR-Q1) - NUMBER

	$640 \div (7 + 9) \times 9$ or $40 \times 9$	360
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2 - (4MA0-W 2015-Paper 3HR-Q2) - NUMBER

(a)	$15625 + \frac{173}{2.5}$	15694.2
(b)		15700

3 - (4MA0-W 2015-Paper 3HR-Q8) - NUMBER

(a)	$\frac{12}{100} \times 45 (=5.4)$  $45 - "5.4"$	39.6(0)
(b)	$546 - 525 (=21)$ $\frac{'21'}{525} \times 100$	4

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4 - (4MA0-W 2015-Paper 3HR-Q9) - NUMBER

	$\frac{15}{2} - \frac{14}{3} = \frac{45a}{6a} - \frac{28a}{6a}$	shown

5 - (4MA0-W 2015-Paper 3HR-Q13) - NUMBER

	$2^3 \times 3^2$	
		72