

FOR EXAMINERS' USE ONLY	
TOTAL MARKS	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2016**

0044 MATHEMATICS

PAPER 2 (100 Marks)

Monday **6 June 2016** 9:00 A.M.–11:00 A.M.

INSTRUCTIONS TO CANDIDATES

Write your school number, candidate number as well as your initial(s) and surname in the spaces provided on this question booklet.

Answer **ALL** questions in the spaces provided on this question booklet.

ALL working must be shown.

The use of calculators, tables or other calculation aids is **NOT** allowed.

ALL working is to be done in **blue** or **black ink**. Working and answers written in pencil, **except constructions and graphs**, may not be marked.

ALL diagrams are not drawn to scale unless otherwise indicated.

The mark for each question, or part question, is shown in brackets [].



This question paper consists of 13 printed pages.

15. Mr. Smith is y years old. His son George is 21 years younger.

- (a) Write an expression using y to show his son's age.

Answer: _____ years old [1]

- (b) (i) Write an expression to show their total ages.

Answer: _____ years [1]

- (ii) Write the answer to (b) (i) in its simplest form.

Answer: _____ years [1]

The sum of their ages is 59 years.

- (c) (i) Write an equation to show this information.

Answer: _____ years [1]

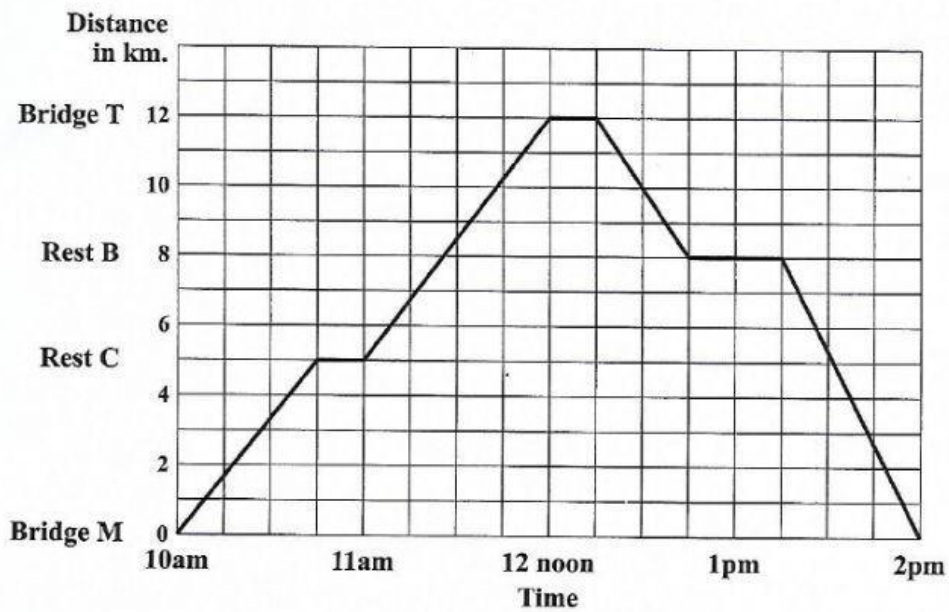
- (ii) Solve your equation formed in (c)(i)

Answer: _____ years [3]

- (d) Write the age of the son.

Answer: _____ years [2]

16. The graph shows an athlete on a run from **Bridge M** to **Bridge T** and back.



- (a) How long does the athlete stop altogether?

Answer: _____ hour(s) [2]

- (b) At what time does he arrive at **Bridge T**?

Answer: _____ [1]

- (c) At what time does he arrive at Rest stop **B** on the **RETURN** run?

Answer: _____ [1]

- (d) Calculate the **TOTAL** distance ran.

Answer: _____ km [2]

- (e) Calculate the time taken for the entire run.

Answer: _____ hours [1]

- (f) Calculate the mean speed for the entire journey.

Answer: _____ km/h [2]

17. Mary purchased the items below from the store.

- (a) Complete the table to show each total then the grand total.

Item	Cost Price	Total
3 Shirts	\$25.50 each	
1 pair tennis shoes	\$89 per pair	
6 pairs of socks	\$6.90 per two pairs	
GRAND TOTAL		

[6]

There is a 7.5% VAT (value added tax) added to the bill.

- (b) How much money is charged for VAT?

Answer: \$ _____ [3]

- (c) What is the **TOTAL** amount Mary paid the cashier for the items?

Answer: \$ _____ [1]