0044/1

BJC

SCHOOL No.	CANDIDATE No.
INITIAL(S)	SURNAME

0044 MATHEMATICS
PAPER 1 (50 MARKS)

Monday **29 MAY 2006** 9:00–10:00 A.M.

MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2006

INSTRUCTIONS TO CANDIDATES

Write your school number, candidate number as well as your Initials 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, slide rulers, 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 **9** printed pages.

Answer **ALL** questions. Show **ALL** necessary working.

1. (a)

$$457 \\ + 150 \\ \underline{231}$$

Answer: _____ [1]

(b)

$$8654 \\ \underline{-1832}$$

Answer: _____ [1]

2. (a)

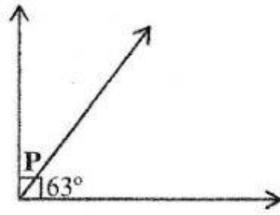$$1104 \\ \underline{\times \quad 5}$$

Answer: _____ [1]

(b) $4\overline{)828}$

Answer: _____ [1]

3. Mrs. Miller's children drink $1\frac{1}{2}$ gallons of milk each week. How many gallons of milk will they drink in six weeks?
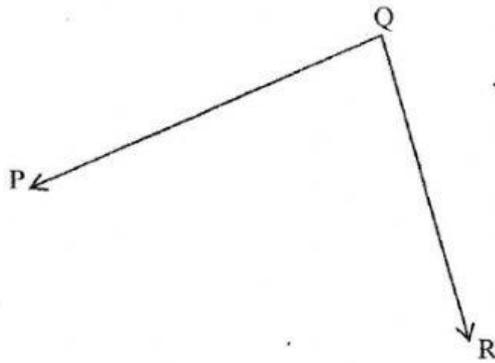
Answer: _____ gallons [2]

4. Calculate the size of angle **P**.

NOT TO SCALE

P
63°

Answer: _____ ° [2]

5. Using PENCIL, COMPASS AND RULER ONLY, BISECT PQ̂R.

Q

P

R

[3]

6. Insert the correct symbols from the list into each box to make each statement true.

| +, −, ×, ÷ |

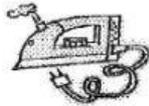(a) $\dfrac{3}{4}$ ☐ $\dfrac{1}{4}$ = 1 [1]

(b) $\dfrac{3}{4}$ ☐ $\dfrac{1}{4}$ = 3 [1]

(c) $\dfrac{3}{4}$ ☐ $\dfrac{1}{4}$ = $\dfrac{3}{16}$ [1]

(d) $\dfrac{3}{4}$ ☐ $\dfrac{1}{4}$ = $\dfrac{1}{2}$ [1]

7. Samantha bought one of each of the following items:

Iron

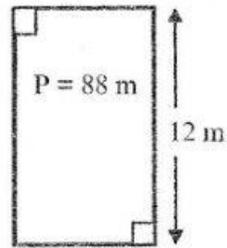$17.99

Microwave

$69.00

(a) Calculate her total bill.

Answer: $ _____ [1]

Samantha paid her bill with two $50 notes.

(b) How much change should she receive?

Answer: $ _____ [3]

8.

P = 88 m

12 m

The diagram represents a garden. The perimeter (P) of the garden is 88 metres. The length of the garden is 12 metres. Calculate the width (breadth) of the garden.

Answer: _____ m [4]

9.

Salem Public School had an enrolment of 1200 students at the beginning of the new school year. There was a 20% increase in the enrolment at mid term.

(a)   By how many students was the enrolment increased?

Answer: _____ students [2]

(b)   What is the new enrolment?

Answer: _____ students [2]

LIVEWORKSHEETS

10. (a) (i)   Write 30% as a fraction.

Answer: _____ [1]

(ii) Write your answer in (a)(i) in its lowest term.

Answer: _____ [1]

(b) Express $\frac{3}{4}$ as a decimal.

Answer: _____ [2]

11.

$7.45

5 pens cost $7.45. Find the cost of:

(a) one pen;

Answer: $ _____ [2]

(b) fifteen such pens.

Answer: $ _____ [2]

12.

There are four oranges, two apples and three bananas in a fruit basket.

(a) Write as a ratio, in its lowest terms, the number of apples to the number of oranges.

Answer: _____ [2]

(b) What is the probability of picking a banana out of the fruit basket?

Answer: _____ [2]

13.

PINE GROUND HIGH SCHOOL				
Name: Queenie Brock Grade: 8 Merits: 10			Age: 12 years Absent: 3 days Demerits: 2	
SUBJECT	GRADE	EFFORT	CONDUCT	SIGNATURE
English Language	64			
Mathematics	76			
Spanish	70			
General Science	60			
Physical Education	90			
Religious Studies	54			
Social Studies	76			
			.	

The report reflects Queenie's grades at the end of the 2004–2005 school year. What is the

(a)   modal grade?

Answer: _____ [1]

(b)   median grade?

Answer: _____ [2]

(c)   mean grade?

Answer: _____ [2]

14. Simplify:

(a) $12m + 4g - 8m + g$

Answer: _____ [2]

(b) When $a = 4$, find the value of

$6a - 5$

Answer: _____ [2]

(c) Solve for 'x'

$x - 13 = 43$

Answer: _____ [2]