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Total Marks	

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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2012**

**0044 MATHEMATICS
PAPER 2 (100 MARKS)**

Monday **4 June 2012** 9.00–11.00 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, 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 [].

Answer ALL questions. Show ALL necessary working.

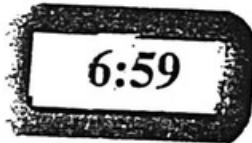
1.



Molly's grandmother was 62 years old in 1964. In what year was she born?

Answer: _____ [2]

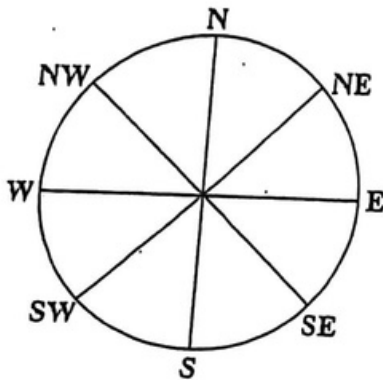
1.



The clock is seven minutes slow. What is the correct time when the clock shows 6:59?

Answer: _____ [2]

3. Through how many degrees would you turn if you turned from NE to S in a clockwise direction?



Answer: _____ ° [2]

4. Find the product of two thousand four hundred and sixty and eighty one.

Answer: _____ [4]

5. Giving your answer in its lowest form, find the value of

$$\frac{2}{3} \times \left(\frac{1}{4} - \frac{1}{12} \right) \div \frac{1}{2}$$

Answer: _____ [4]

6.



A sweater priced at \$48⁰⁰ was on sale at a 30% discount.

Calculate

- (a) the amount of the discount,

Answer: \$ _____ [2]

- (b) the sale price of the sweater.

Answer: \$ _____ [2]

ROUGH WORK

7. The calendar for February of a certain year is shown below.

FEBRUARY

Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
	1.	2.	3.	4.	5.	6.
7.	8.	9.	10.	11.	12.	13.
14.	15.	16.	17.	18.	19.	20.
21.	22.	23.	24.	25.	26.	27.
28.						

Use the calendar above to answer the following questions.

- (a) Valentine's Day is February 14th. What day of the week is Valentine's Day?

Answer: _____ [1]

- (b) Ash Wednesday is the third Wednesday in the month. What date is that?

Answer: _____ [1]

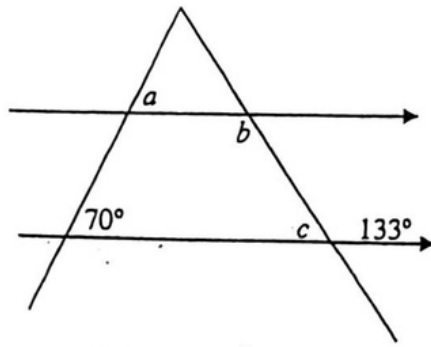
- (c) What date is the fourth Sunday in February?

Answer: _____ [1]

- (d) What day of the week is the 5th of March?

Answer: _____ [1]

8.



(a) Give the size of:

(i) $\angle a$

Answer: _____ [1]

(ii) $\angle b$

Answer: _____ [1]

(b) Calculate the size of $\angle c$.

Answer: _____ [2]

9.



Six friends went to lunch. Each person's lunch costs \$15.95.

- (a) What is the cost of the six lunches?

Answer: _____ [2]

They left a total tip of \$15 for the waitress.

- (b) What was the total cost of the lunch and tip?

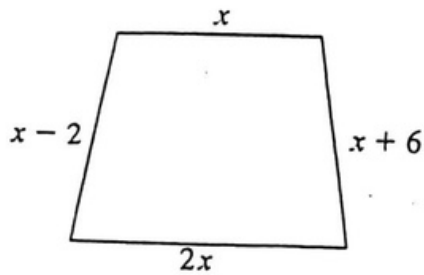
Answer: _____ [1]

The total bill was shared equally among the six friends.

- (c) How much did each person pay?

Answer: _____ [2]

10. The diagram below shows Mr. Jones' tomato field.



- (i) Write down an expression for the distance around the field.

Answer: _____ [1]

- (ii) Simplify your answer from part (i)

Answer: _____ [1]

The distance around the field is 124 m

- (iii) Using your answer from (ii), write an equation to show this information.

Answer: _____ [1]

- (iv) Solve your equation to find x .

Answer: _____ [2]

11. The chart below shows the ages of five boys.

Name	Age
Colin	17
John	12
Paul	14
Eric	15
George	12

(a) Calculate

- (i) the total age of the boys,

Answer: _____ [1]

- (ii) the average age of the boys,

Answer: _____ [2]

- (iii) the modal age of the boys,

Answer: _____ [1]

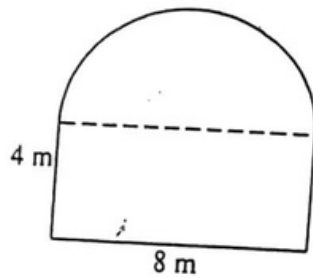
- (iv) the range of the boys' ages,

Answer: _____ [2]

- (b) Which boy's age is the same as the average age of the group?

Answer: _____ [1]

12. A window is in the shape of a rectangle with a semi-circle at one end.



- (a) Calculate the area of the rectangular section of the window.

Answer: _____ [2]

- (b) State the radius of the semi-circle.

Answer: _____ [1]

- (c) Calculate the area of the semi-circular section of the window.
(Use $\pi = 3$).

Answer: _____ [3]

Glass costs \$9⁰⁰ per square meter.

- (d) Calculate the total cost of the glass needed for the window.

Answer: _____ [2]

13.



Jane has 3 blue, 1 red and 4 black markers. One is chosen at random.

(a) What is the probability it is blue?

Answer: _____ [2]

(b) Express the probability of choosing a red marker correct to 2 decimal places.

Answer: _____ - _____ [3]

(c) What is the probability of choosing a blue or a red or a black marker?

Answer: _____ [1]

14. Simplify

(a) $3a \times 8ab$

Answer: _____ [3]

(b) $3(x - 4) + 2(x + 7)$

Answer: _____ [4]

18.

Cash Price - £1,500
or
Deposit - 10% of the cash price
+
24 equal monthly payments

Miss Jones wants to buy a flat screen TV. The set can be bought on hire purchase for a down payment of 10% of the cash price followed by 24 equal monthly payments.

(a) Calculate the amount of the deposit.

Answer: _____ (1)

(b) How much is the balance?

Answer: _____ (1)

There is a 20% interest charge on the balance.

(c) How much is the interest on the balance?

Answer: _____ (2)

(d) What is the total cost of the TV on hire purchase?

Answer: _____ (2)

(e) How much is each monthly payment?

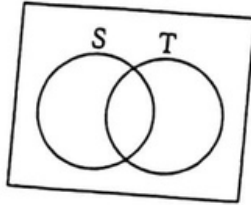
Answer: _____ (2)

16. Use your ruler, pencil and compass to answer this question.

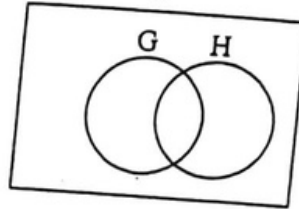
- (a) Draw and label $AB = 10$ cm. [2]
- (b) At B construct an angle of 90° . [2]
- (c) Draw $BC = 8$ cm. [1]
- (d) Complete triangle ABC . [1]
- (e) What is the special name given to triangle ABC ?
Answer: _____ [1]
- (f) Bisect angle A . [2]

17. (a) In each diagram, shade the region indicated below it.

(i) $S \cup T$

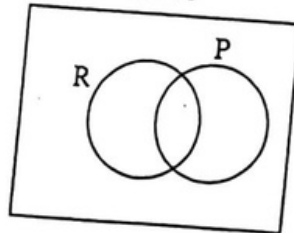


(ii) H'



(iii)

$R \cap P$

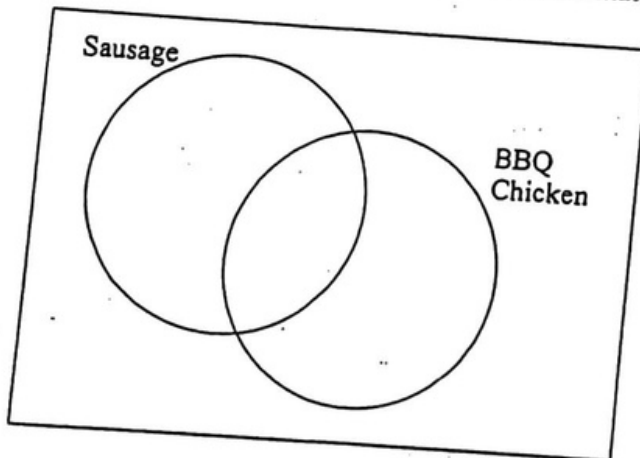


- (b) A group of friends ordered pizza.

[3]

5 liked sausage. 6 liked BBQ chicken. 4 liked sausage and BBQ chicken. 3 liked neither.

- (i) Complete the Venn diagram to show this information.



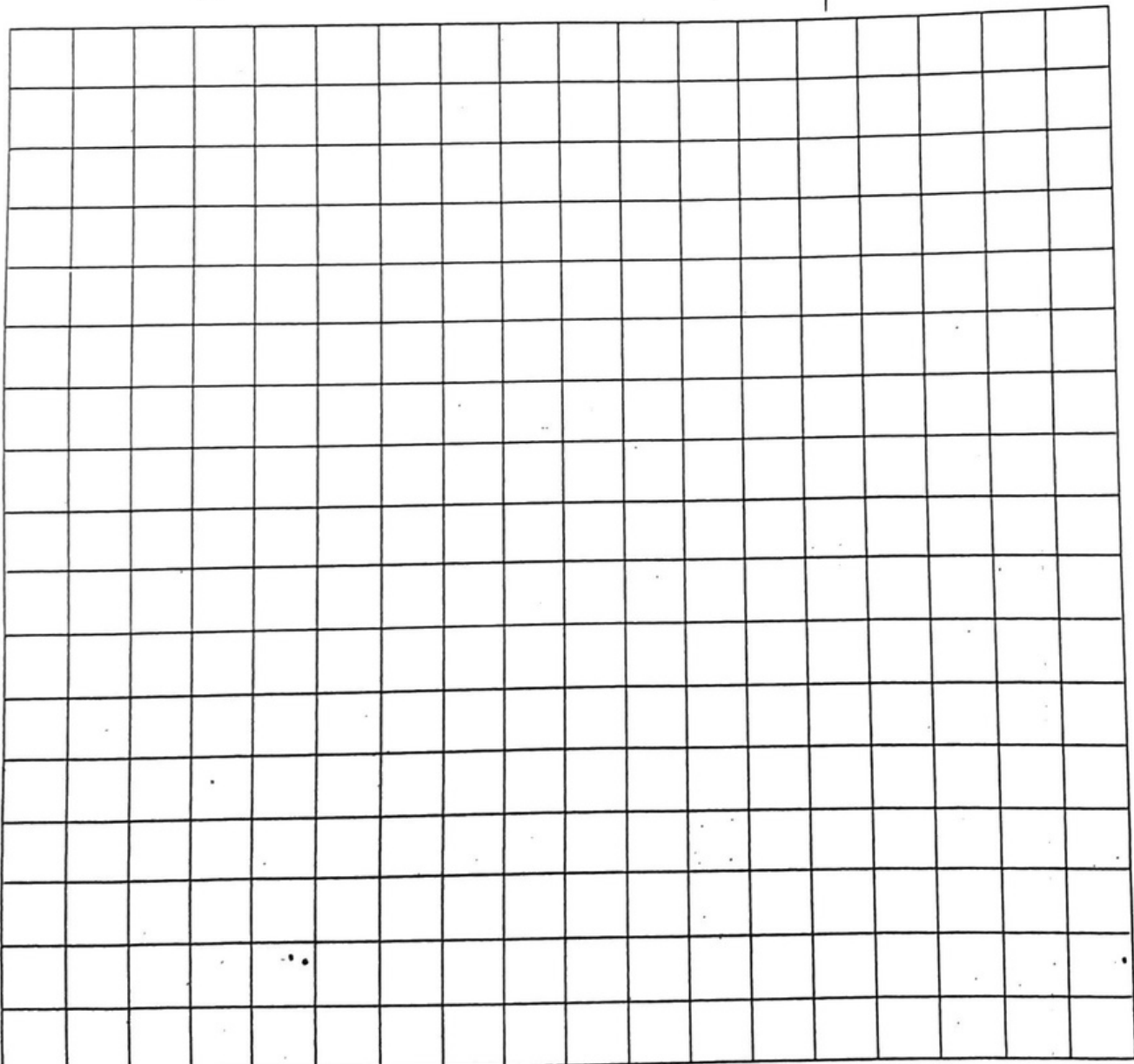
[4]

- (ii) Use the diagram to state how many friends were in this group.

Answer: _____ [1]

18. Answer this question on the grid paper below.

- (a) Draw x and y -axes from -8 to $+8$. [2]
- (b) Plot, label and join the following points in order to form a quadrilateral.
 $A(1,2)$ $B(1,4)$ $C(3,4)$ $D(3,2)$ [2]
- (c) Give the special name of this quadrilateral.
Answer: _____ [1]
- (d) On the same axes, draw the line $y = -2$. [1]
- (e) Reflect $ABCD$ in the line $y = -2$. [2]
- (f) Move the original quadrilateral $ABCD$ 4 spaces left and 3 spaces up. [2]



End]