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0044/2

BJC

FOR EXAMINERS' USE ONLY	
Total Marks	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2009**

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

Tuesday **2 June 2009** 9.00-11.00 AM.

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 the 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. Subtract 3 405 from the sum of 2 847 and 5 032

Answer: _____ [3]

2. The prime factors of a certain number are $2 \times 2 \times 3 \times 3 \times 3 \times 3$.

(a) What is the number?

Answer: _____ [1]

(b) Determine $\sqrt{2 \times 2 \times 3 \times 3 \times 3 \times 3}$.

Answer: _____ [2]

3. The temperature at 10:00 a.m. was 0°C . By noon it had dropped by 5°C .
- (a) What was the actual temperature at noon?

Answer: _____ $^{\circ}\text{C}$ [1]

The temperature then rose by 7°C but later dropped by 3°C .

- (b) What is the new temperature?

Answer: _____ $^{\circ}\text{C}$ [2]

4. A school has 800 students. 350 students are boys.

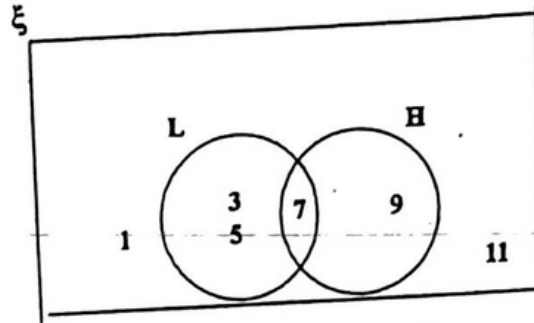
- (a) How many girls are in the school?

Answer: _____ girls [2]

- (b) Write the ratio of boys to girls in lowest terms.

Answer: _____ [2]

7.



Use the Venn diagram above to answer the following questions.

(a) $\xi = \{ \quad \quad \quad \}$ [1]

(b) $L = \{ \quad \quad \quad \}$ [1]

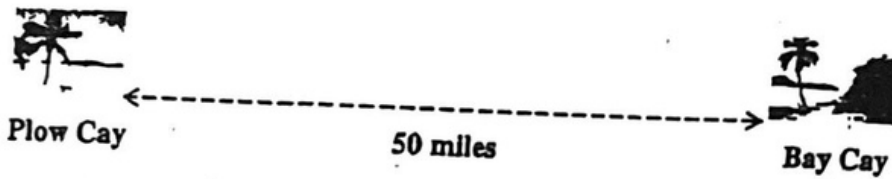
(c) $L' = \{ \quad \quad \quad \}$ [1]

(d) $n(L \cup H)$

Answer: _____ [1]

8.

NOT TO SCALE



Sam left Plow Cay in his boat at 8 a.m. He arrived at Bay Cay at 11:30 a.m.

- (a) How long was his trip?

Answer: _____ [1]

The distance between the cays is 50 miles.

- (b) (i) Calculate the speed of the boat.

$$S = \frac{D}{T}$$

Answer: _____ mph [2]

- (ii) Write the answer from (b)(i) correct to the nearest whole number.

Answer: _____ [1]

9. On the graph below:

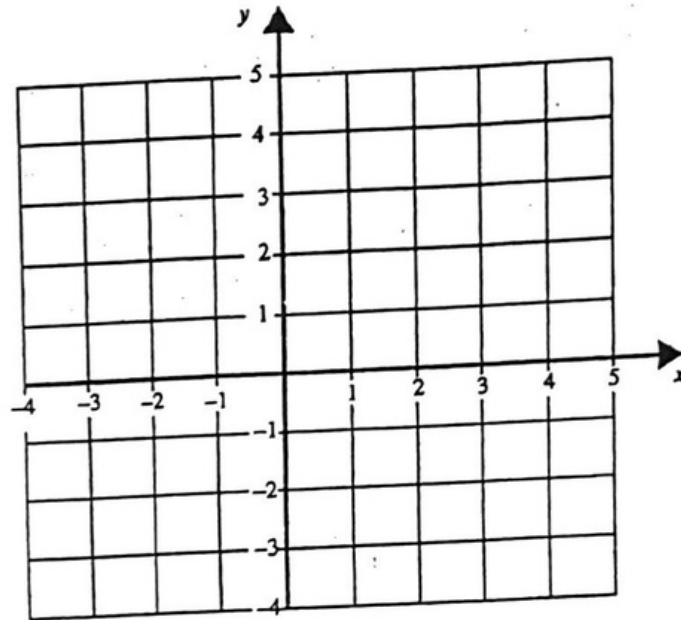
- (a) Draw the line $x = -2$.
- (b) Shade the region $x \geq -2$.
- (c) Draw the line $y = 3$
- (d) Shade the region $y \leq 3$

[1]

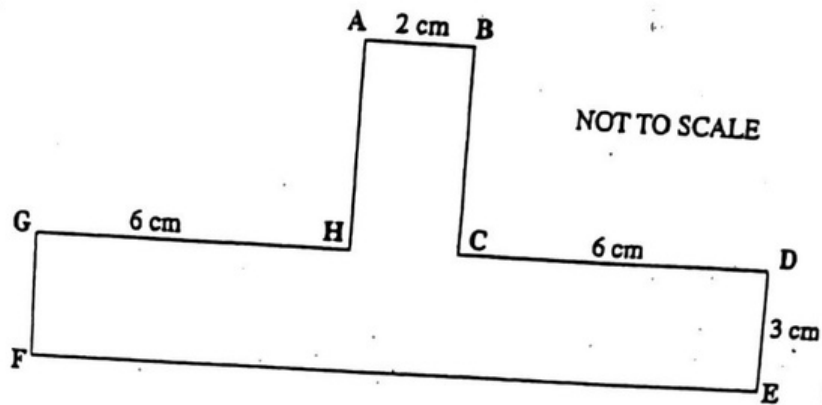
[2]

[1]

[2]



10.



From the diagram above

(a) determine the length of:

(i) AH.

Answer: _____ cm [1]

(ii) GF.

Answer: _____ cm [1]

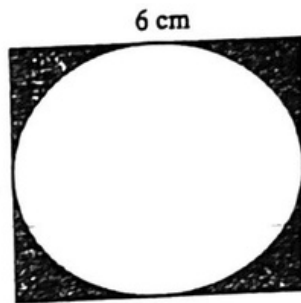
(iii) FE.

Answer: _____ cm [2]

(b) Calculate the perimeter of the shape.

Answer: _____ cm [2]

11.



6 cm

NOT TO SCALE

A square has sides of 6 cm. A circle is placed in the square as shown in the diagram above.

- (a) State the length of the radius of the circle.

Answer: _____ cm [1]

- (b) Determine the area of the circle using $\pi = 3.14$.

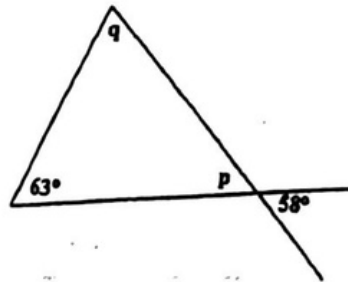
Answer: _____ cm^2 [3]

- (c) Find the area of the shaded region.

Answer: _____ cm^2 [3]

12. Find the size of the angles indicated by the letters.

(a)



NOT TO SCALE

(i) p

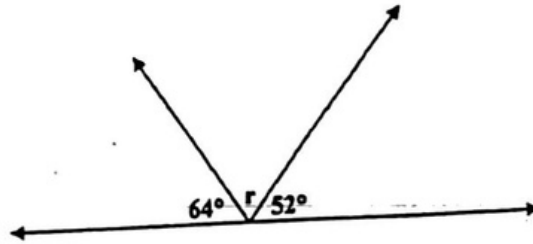
Answer: _____ ° [1]

(ii) q

Answer: _____ ° [1]

12

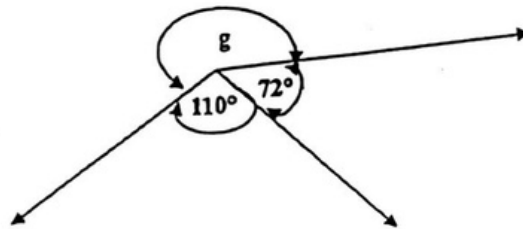
(b)



$r =$

Answer: _____ • [2]

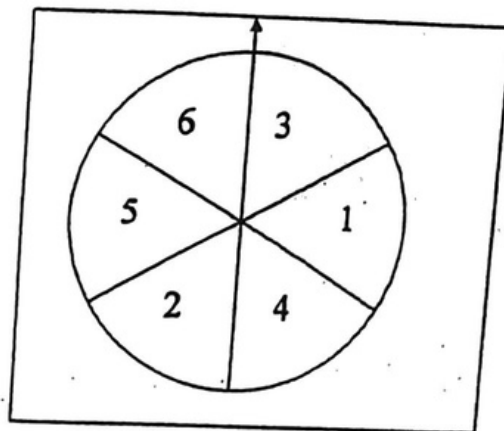
(c)



$g =$

Answer: _____ • [2]

13.



A spinner is spun and each outcome is recorded. What is the probability that it lands on

- (a) a number less than 5?

Answer: _____ [2]

- (b) a prime number?

Answer: _____ [2]

- (c) a factor of 3?

Answer: _____ [2]

- (d) a multiple of 8?

Answer: _____ [2]

14.



A television set was priced at \$840. Mr. Jones purchased the television on the following terms:

- (i) 20% down payment,
- (ii) 10% interest charge on the balance,
- (iii) pay off the debt completely in 10 equal payments.

Calculate the amount of:

- (a) the down payment.

Answer: \$ _____ [2]

- (b) the balance.

Answer: \$ _____ [1]

- (c) the interest.

Answer: \$ _____ [2]

- (d) the balance plus interest.

Answer: \$ _____ [1]

- (e) each of the 10 monthly payments.

Answer: \$ _____ [2]

15. x metres

Store A

 $2x$ metres

Store B

5 metres



Store C

Ms. Smith bought 3 pieces of material from three different stores.

- (a) Write an expression to show the **TOTAL** length of material bought from Store A, Store B and Store C.

Answer: _____ [2]

- (b) Simplify your answer to part (a).

Answer: _____ [1]

The total length of material purchased was actually 50 metres.

- (c) Form an equation to represent this information.

Answer: _____ [2]

- (d) Solve your equation in (c).

Answer: _____ [3]

- (e) Use your answer in (d) to find the length of material purchased at

- (i) Store A,

Answer: _____ m [1]

- (ii) Store B.

Answer: _____ m [1]

16. Mrs. Grant went shopping for school supplies.

(a) Complete the bill below by filling in the blank spaces.

QUANTITY	ITEM	PRICE PER ITEM	TOTAL
4	calculators		\$44.00
	textbooks	\$21.00	\$105.00
5	notebooks	\$1.75	
	Grand Total:		

[2]

[2]

[2]

[1]

- (b) Mrs. Grant paid the bill with 8 twenty-dollar bills. How much money is this?

Answer: \$ _____ [1]

- (c) How much change did Mrs. Grant receive?

Answer: \$ _____ [2]

17.

NOT TO
SCALE

- (a) Using a scale of 1 centimetre to represent 10 metres, make a scale drawing of the playground above. [6]
- (b) Draw in a diagonal in your rectangle. [1]
- (c) Measure, and write down the length of the diagonal.

Answer: _____ cm [1]

- (d) What is the actual length of the diagonal in (c)?

Answer: _____ m [2]