



THE OPENHANDED CLASSROOM

BJC Mathematics

EXAM
PAST PAPERS

UNDERSTAND.

PRACTICE.

SUCCEED.



THE OPENHANDED CLASSROOM

LEARN MORE. ACHIEVE MORE. SMILE MORE.



BGCSE CLASSES

- ✓ Exam-Focused Learning
- ✓ Past Papers & Strategies
- ✓ Stronger Understanding
- ✓ Better Grades, Brighter Future



[**CLICK HERE**](#)



SAT CLASSES

- ✓ Smart Test Strategies
- ✓ Stronger Scores
- ✓ Time Management Skills
- ✓ College & Scholarship Ready



[**CLICK HERE**](#)



BJC CLASSES

- ✓ Clear, Simple Explanations
- ✓ Focus on Understanding
- ✓ Help That Fits Your Pace
- ✓ Build Confidence, Get Results



[**CLICK HERE**](#)



EXPERT TEACHING.
PROVEN RESULTS.



LEARN SMARTER.
ACHIEVE MORE.



FOCUSED SUPPORT.
REAL RESULTS.



THEOPENHANDEDCLASSROOM:
(242) 426-8891



THE OPENHANDED CLASSROOM

BJC FREE SOLUTIONS MANUALS

COMPLETE SOLUTIONS FOR ALL
MAJOR SUBJECTS

- ⦿ MATHEMATICS
- ⦿ ENGLISH
- ⦿ LANGUAGE
- ⦿ HEALTH SCIENCE
- ⦿ GENERAL SCIENCE
- ⦿ SOCIAL STUDIES
- ⦿ RELIGIOUS STUDIES
- ⦿ FRENCH
- ⦿ SPANISH

UNDERSTAND. PRACTICE. SUCCEED.

CLICK HERE

FREE LISTENING COMPREHENSION — AUDIO FILES —



THE **EXACT AUDIO** USED
IN PAST BJC & BGCSE EXAMS



REAL EXAMS

The exact listening comprehension audio from past papers.



REAL PREPARATION

Hear what you'll hear in the real exam.



REAL RESULTS

Practise with purpose. Improve your confidence and performance.

AVAILABLE FOR:



BJC

ENGLISH



BGCSE

**ENGLISH
LANGUAGE**



BJC

FRENCH



BJC

SPANISH



BGCSE

FRENCH



BGCSE

SPANISH

WHY THESE AUDIO FILES MATTER



EXACT AUDIO

The exact recordings used in past BJC & BGCSE exams.



EXAM FAMILIARITY

Get used to the real voices, speed, accents and exam conditions.



STRATEGIC ADVANTAGE

Walk in confident knowing exactly what to expect.



100% FREE

High quality. No cost. Just results.



CLICK HERE

DOWNLOAD • START PRACTISING



BETTER PREPARATION.
BETTER RESULTS.

You've got this!

FOR EXAMINERS' USE ONLY	
Total Marks	

SCHOOL No.	CANDIDATE No.
INITIAL (S)	SURNAME

**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2000**

0044 MATHEMATICS

PAPER 1 (50 MARKS)

Wednesday **31 May 2000** 9:00–10:00 A.M.

INSTRUCTIONS TO CANDIDATES

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

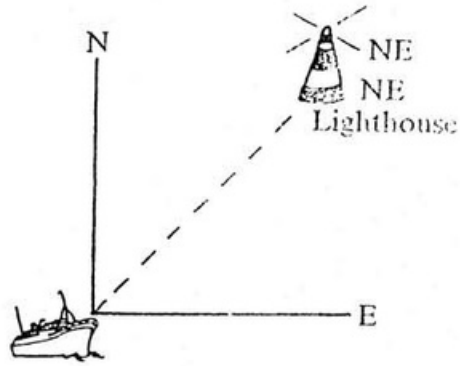
Answer **ALL** questions in the spaces provided on the question paper.

ALL working must be shown.

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

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

1.



Using the diagram above, write down the three figure bearing of the lighthouse from the ship.

Answer _____ [1]

2. (a)
$$\begin{array}{r} 348 \\ + 567 \\ \hline \end{array}$$

(b)
$$\begin{array}{r} 3489 \\ - 1625 \\ \hline \end{array}$$

Answer (a) _____ [1]

Answer (b) _____ [1]

3. (a)
$$\begin{array}{r} 674 \\ \times 5 \\ \hline \end{array}$$

(b)
$$4 \overline{)1244}$$

Answer (a) _____ [1]

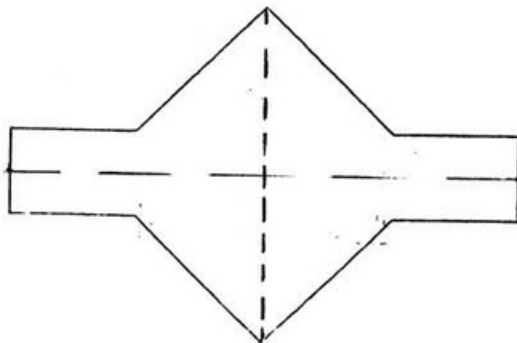
Answer (b) _____ [1]

4. Write down the next two prime numbers in the following sequence:

11, 13, 17, 23, _____, _____.

Answer _____ [2]

5. Draw in the line(s) of symmetry on the figure below.



6. Write the following ratio in its simplest form:

32:12

Answer _____ [2]

7. (a) Write 0.48 as a fraction.

Answer _____ [1]

- (b) Write the answer in part (a) as a fraction in its lowest terms.

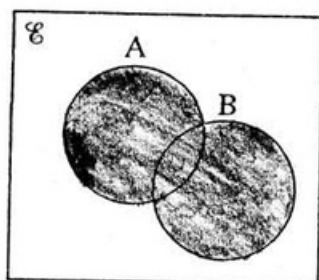
Answer _____ [1]

8. Given that $y = mx + c$, calculate the value of "c" when $y = 15$, $m = 3$, and $x = 4$.

Answer _____ [3]

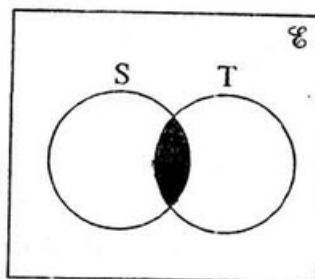
9. Shade the regions indicated, on the Venn diagrams below.

(a)



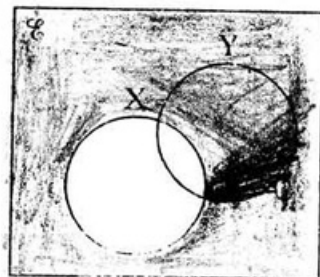
$A \cup B$

(b)



$S \cap T$

(c)



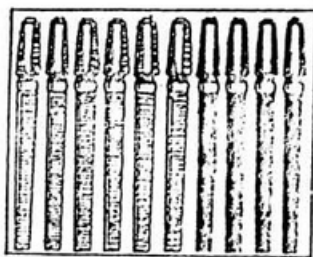
X'

[3]

10.



Red



Blue

Black

There are 4 black pens, 6 blue pens and 2 red pens in a box.

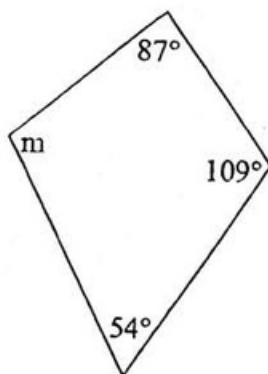
- (a) Find the probability of choosing, at random, a black pen.

Answer _____ [1]

- (b) Write the probability in (a) as a percent.

Answer _____ % [2]

11. Calculate the size of angle "m".



Not to
Scale

Answer _____ $^\circ$ [3]

12.



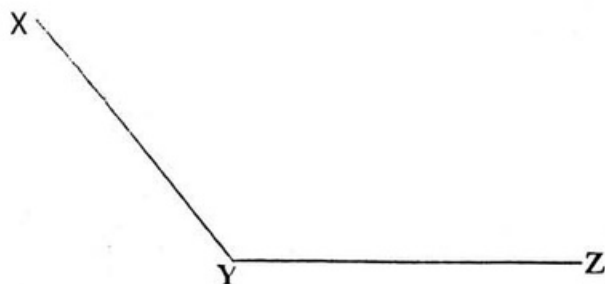
Mae weighed 205 pounds. She started a diet. The table below shows the results over the first three weeks.

WEEKS	1	2	3
Weight gained	0 pounds	2 pounds	0 pounds
Weight lost	3 pounds	0 pounds	4 pounds

Calculate Mae's weight at the end of the third week.

Answer _____ pounds [3]

13. (a) (i) Using a compass, ruler and pencil, bisect angle XYZ ,
(ii) Name the bisector YM .



[3]

- (b) Measure and write down the size of angle MYZ .

Answer _____° [1]

-
14. From the set of numbers { 3, 4, 5, 6, 7 }, write down,

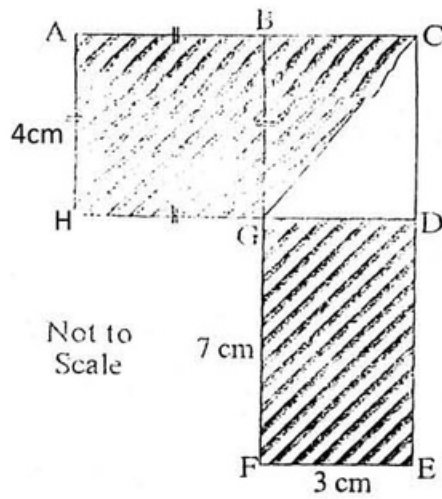
- (a) the even number(s),

Answer _____ [2]

- (b) the multiple(s) of 3.

Answer _____ [2]

15.



Calculate the area of:

(i) ABGH

Answer _____ cm^2 [1]

(ii) BCG

Answer _____ cm^2 [1]

(iii) GDEF

Answer _____ cm^2 [1]

(iv) The total area of the shaded section.

Answer _____ cm^2 [1]

16. (a) Solve,
 $5p = 65$.

Answer _____ [2]

- (b) Simplify,

(i) $5m + 3n + n - 2m$,

Answer _____ [2]

(ii) $g^2 \times g^3$

Answer _____ [1]

17.



Ben played 7 games in a basketball tournament. His scores were:

30, 23, 16, 12, 20, 11 and 14.

Use the scores above to calculate,

(a) the median score,

Answer _____ [2]

(b) the mean (average) score.

Answer _____ [3]

FOR EXAMINERS' USE ONLY	
Total Marks	4

SCHOOL No.	CANDIDATE No.
INITIAL(S)	SURNAME

**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2000**

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

Thursday **1 June 2000** 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 the question booklet.

Answer **ALL** questions in the spaces provided on the question paper.

ALL working must be shown.

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

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

1. The prime factors of 28, 42 and 70 are given below.

$$28 = 2 \times 2 \times 7$$

$$42 = 2 \times 3 \times 7$$

$$70 = 2 \times 5 \times 7$$

Use the factors to write down the H.C.F. (Highest Common Factor) of the given numbers.

Answer 14 [2]

2. Write down the value of a .

$$\sqrt{a} = 12$$

$$\sqrt{a} = 12$$

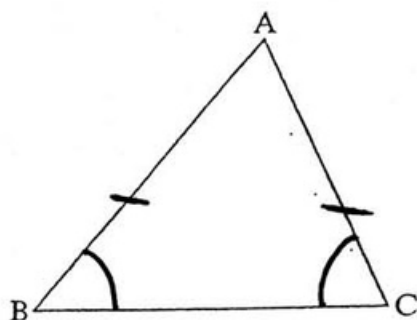
$$a = 12^2$$

$$= 12 \times 12$$

$$= 144$$

Answer 144 [2]

- 3.



ABC is an isosceles triangle. $\hat{A}$ is the Apex angle. On the triangle, clearly mark the following,

- (a) the equal sides, [1]

- (b) the equal angles [1]

4. An exchange rate showed

$$1\text{£} = \text{Bahamian } \$1.61.$$

Calculate the amount of Bahamian dollars you would receive for £44.

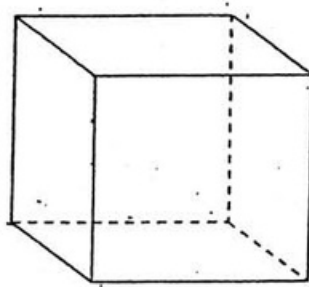
Answer B\$ _____ [2]

5. Simplify

$$8fb \div 4b$$

Answer _____ [2]

6. Use the cube shown below to answer the questions which follow.



Write down the number of,

- (a) faces,

Answer _____ [1]

- (b) vertices,

Answer _____ [1]

- (c) edges.

Answer _____

7.

RUTH



JAMES

James is 5 years old. His sister Ruth is 4 years old. They share \$360 in the ratio of their ages.

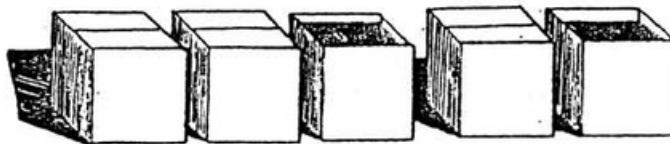
- (a) Set up the ratio to show James' age to Ruth's age.

Answer _____ [1]

- (b) Calculate the amount of Ruth's share.

Answer _____ [2]

8.



Total weight ... 800 kg

5 boxes have a total weight of 800 kg. One box weighing 120 kg is taken away. Calculate the average weight of the remaining 4 boxes.

Answer _____ kg [3]

9. Use the information shown below to answer the questions which follow.

A P R I L						
SUN	MON	TUE	WED	THU	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	29	30				

- (i) If today's date is **April 14**, what will be the date **2 weeks** from today?

Answer _____ [1]

- (ii) What is the date of the **third Monday** in April?

Answer _____ [1]

- (iii) Ann's birthday is on **April 20**. John's birthday is **one week and two days** before Ann's birthday. What date is John's birthday?

Answer _____ [1]

10. Fill in the missing numbers in the square below so that the totals are the same in all directions.

16	11	
	12	
15		8

11.



Joseph walks 90 steps in one minute.

- (a) Calculate the number of steps he makes in ten minutes.

Answer _____ steps [2]

Each of Joseph's steps measures 0.85 metres.

- (b) Calculate the total distance Joseph walked in ten minutes.

Answer _____ m [2]

12.



Mrs Brown had \$1,400. She spent $\frac{1}{8}$ on school supplies, $\frac{1}{4}$ on groceries and $\frac{5}{16}$ on clothes.

Calculate,

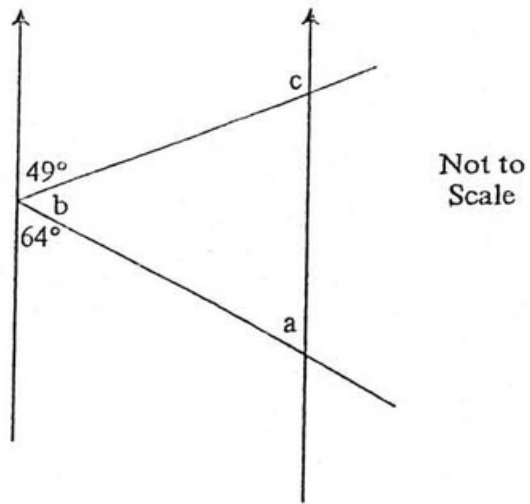
(i) the total fraction spent,

Answer _____ [3]

(ii) the total amount of money spent.

Answer \$ _____

13.



Calculate the value of,

(i) $\hat{a}$

Answer _____ ° [1]

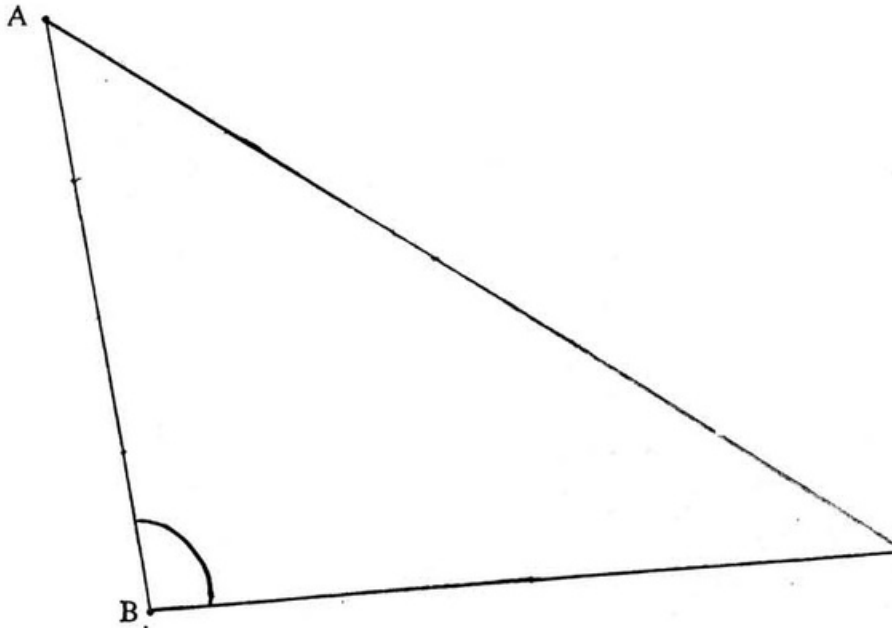
(ii) $\hat{b}$

Answer _____ ° [2]

(iii) $\hat{c}$

Answer _____ ° [2]

14.



- | | | |
|-------|---|-----|
| (i) | Using a protractor, draw an angle of 95° at B. | [1] |
| (ii) | Mark off BC, 10 cm long. | [1] |
| (iii) | Join A to C. | [1] |
| (iv) | Bisect the line AB. | [2] |

15. Evaluate,

(a) $3^2 + 5^3$

Answer _____ [3]

(b) (i) $(6,319 - 486) \div 8$

Answer _____ [2]

(ii) Write your answer to part (b) (i) correct to the nearest hundredth.

Answer _____ [1]

16. Mrs Bain bought the following items:

ITEMS	SELLING PRICE	COST
6 pears	2 for 99¢	\$ — . —
2½ pounds of grapes	\$1.80 per pound	\$ — . —

[4]

Calculate,

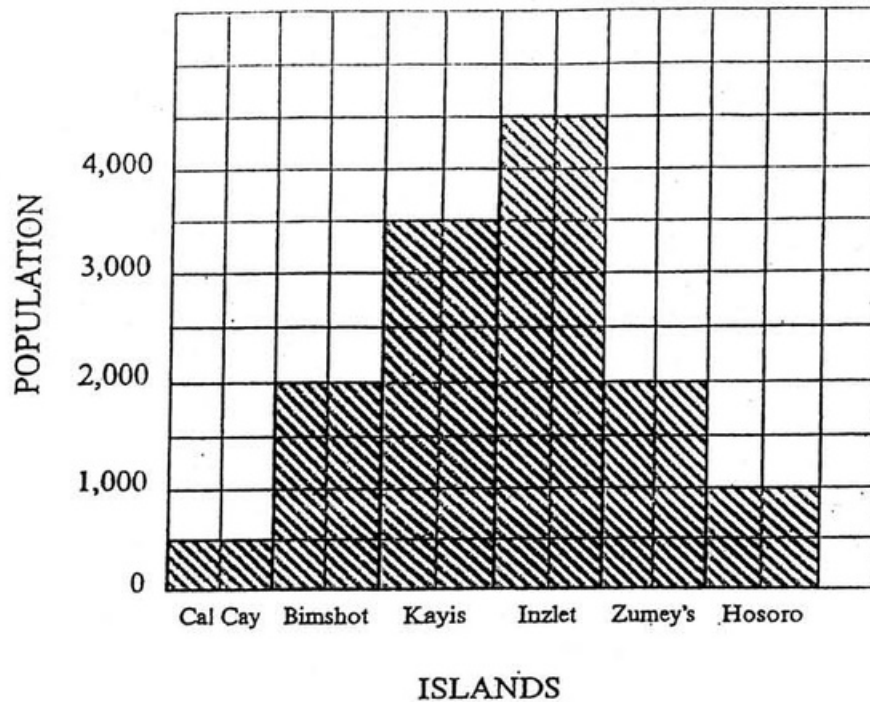
(i) the total amount spent,

Answer _____ [1]

(ii) her change from \$10.00.

Answer _____ [1]

17. The histogram below shows the population of six islands. Use it to answer the questions which follow.



- (i) Which island is the most populated?

Answer _____ [1]

- (ii) Name the two islands which have the same number of persons.

Answer _____ [1]

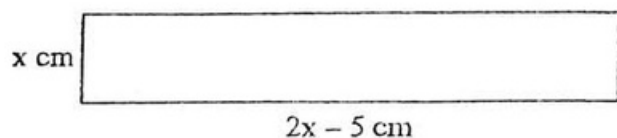
- (iii) Write down the total population of the six islands.

Answer _____ [1]

- (iv) How many more people are there in Kayis than Hosoro?

Answer _____ [2]

18. The length and width of a rectangle are shown in the diagram below.



- (a) (i) Write down an expression for the perimeter of the rectangle.

Answer _____ cm [1]

- (ii) Simplify the expression which you wrote down in part (i).

Answer _____ cm [1]

Given that the perimeter of the rectangle ABCD is 14 cm,

- (b) (i) Write an equation to show this information,

Answer _____ [1]

- (ii) Solve the equation for x .

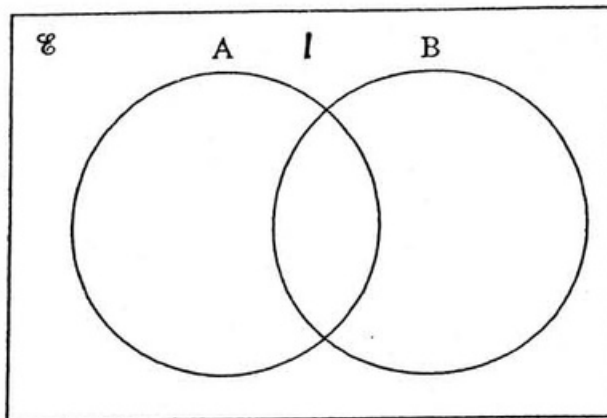
Answer _____ cm [2]

- (c) Use the solution for x to write down the dimensions of the rectangle.

Answer _____ cm _____ cm [2]

19. $\mathcal{U} = \{ 1, 2, 3, 4, 5, 6, 7, 8, 9 \}$
 $A = \{ 2, 4, 6, 8 \}$
 $B = \{ 3, 4, 5, 6 \}$

(a) Complete the Venn diagram to show this information.



[4]

(b) (i) Fully describe $\mathcal{U}$.

Answer _____

[1]

(ii) List all the members of $(A \cup B)'$.

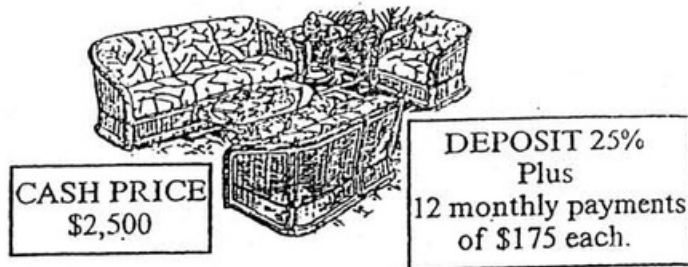
Answer _____ [2]

(iii) Write, as a ratio, in its lowest terms,

$$n(A \cap B) : n(A \cup B)$$

Answer _____

20.



Sandra wants to buy the set shown above on the Hire Purchase Plan.
Calculate,

- (a) (i) the amount of the deposit.

Answer \$ _____ [2]

- (ii) the total monthly payments.

Answer \$ _____ [2]

- (iii) The total cost of the set on the Hire Purchase Plan.

Answer \$ _____ [2]

- (b) How much would she have saved by paying cash?

Answer _____ [2]

- (c) Express her savings as a percentage of the cash price.

Answer _____ % [2]

21. Answer this entire question on the graph paper provided.

- (a) (i) Plot and label the following points,

$$A = (2,1), \quad B = (4,1), \quad C = (4,3), \quad D = (2,4). \quad [4]$$

- (ii) Join the points to complete the shape. [1]

- (b) On the graph, draw the line $y = -2$. [1]

- (c) (i) Reflect ABCD in the line $y = -2$. [2]

- (ii) Label the image A_1, B_1, C_1, D_1 . [1]

- (d) Write down the coordinates of D_1 . [1]

