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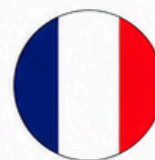
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SECTIONS	MARK
TOTAL	

SCHOOL No.	CANDIDATE No.

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 1997

0044 MATHEMATICS

PAPER 1 (50 marks)

Wednesday **18 June 1997** 9:00 – 10:00 A.M.

INSTRUCTIONS TO CANDIDATES

Write your school number and candidate number 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. (a)
$$\begin{array}{r} 1657 \\ + 918 \\ \hline \end{array}$$

(b)
$$\begin{array}{r} 752 \\ - 467 \\ \hline \end{array}$$

Answer (a) _____ [1]

Answer (b) _____ [1]

2. (a)
$$\begin{array}{r} 315 \\ \times 9 \\ \hline \end{array}$$

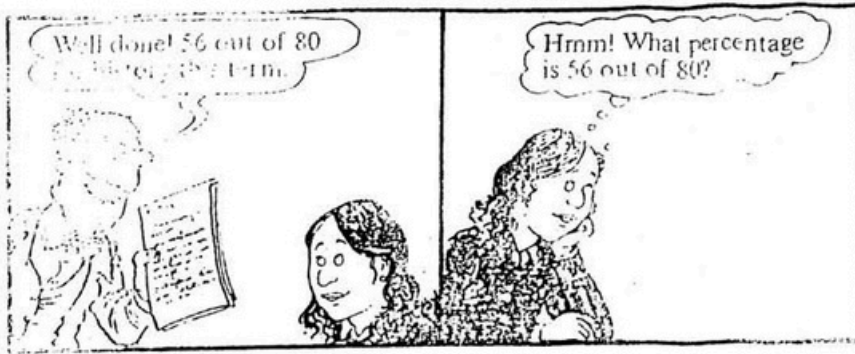
(b)
$$7 \overline{)392}$$

Answer (a) _____ [1]

Answer (b) _____ [1]

3. Write down the next two numbers in the following sequence.

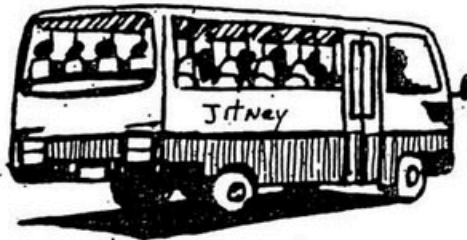
53, 50, 45, 38, 29, _____, _____



What percentage is 56 out of 80?

Answer _____ % [2]

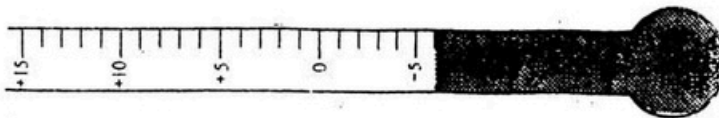
5.



Moving at the same rate, a bus travelled 270 miles in 6 hours. How far did it travel in 1 hour?

Answer _____ miles [2]

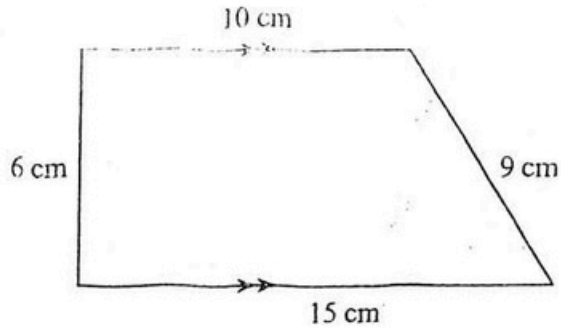
6.



The temperature at 4:00 a.m. was -6°C . Five hours later the temperature had risen by 12 degrees. What was the temperature at 9 a.m.?

Answer _____

7. Calculate the perimeter of the following shape.



Answer _____ cm [2]

8. Given that $f = 6$, $g = 2$ and $k = 12$, calculate the value of

(a) kg ,

Answer _____ [1]

(b) $\frac{f + g}{k}$.

Answer _____ [2]

9. Evaluate

$$2\frac{1}{2} - 4\frac{3}{8} + 3\frac{1}{4}$$

Answer _____ [3]

10.



To build a brick wall of area 4 m^2 , Tamiko and Daria need 48 blocks.

- (a) How many blocks will they need for each square meter?

Answer (a) _____ [2]

- (b) How many blocks of the same size do they need for a wall with an area of 11 m^2 ?

Answer (b) _____ [2]

11. A drawer of pens contained three blue, one red and four black. One pen was chosen at random.

- (a) What is the probability that it is red?

Answer (a) _____ [1]

- (b) Express the probability of choosing a blue pen as a decimal correct to one decimal place.

Answer (b) _____

12.



In 5 basketball games the following points were scored.

Games	Points
1	25
2	14
3	25
4	21
5	30

Write down

(a) the mode,

Answer (a) _____ [1]

(b) the median,

Answer (b) _____ [2]

(c) the highest score as a ratio of the total points for the 5 games.
Give the answer in lowest terms.

Answer (c) _____

13. Simplify

(a) $3x + x + 7x$

Answer (a) _____ [1]

Solve

(b) $5h + 7 = 72$

Answer (b) _____ [2]

14.

Regular Price \$175
SALE 35% OFF



Calculate

(a) the amount of the discount,

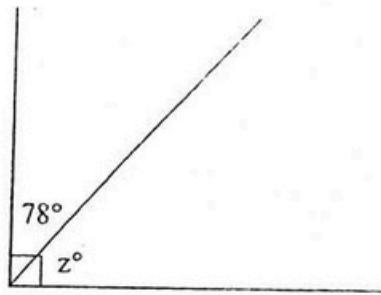
Answer (a) \$ _____ [2]

(b) the sale price of the skates.

Answer (b) \$ _____ [1]

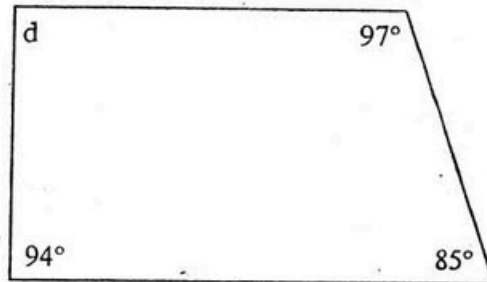
15. Calculate the value of

(a) angle z ,



Answer (a) $\angle z =$ _____ $^{\circ}$ [2]

(b) angle d .



Answer (b) $\angle d =$ _____ $^{\circ}$ [3]

16.

25	40	31
36	27	35
33	28	29

From the numbers on the card above, write down

(a) the prime numbers,

Answer (a) _____ [2]

(b) the square numbers

Answer (b) _____

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SECTIONS	MARK
A	
B	
TOTAL	

SCHOOL No.	CANDIDATE No.

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 1997

0044 MATHEMATICS PAPER II (100 marks)

Thursday **19 June 1997** 9:00 – 11:00 A.M.

INSTRUCTIONS TO CANDIDATES

Write your school number and candidate number in the spaces provided on the question booklet.

This paper consists of Sections A and B.

Answer **ALL** questions in Section A and **FOUR** questions in Section B 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.

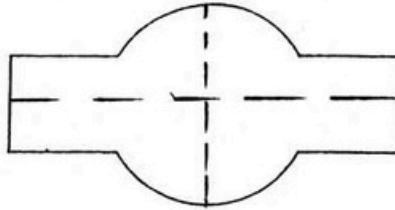
The marks for each question, or part question is shown in brackets [].

SECTION A

(60 marks)

Answer all questions in this section.

1. Draw in the line or lines of symmetry on the shape below.

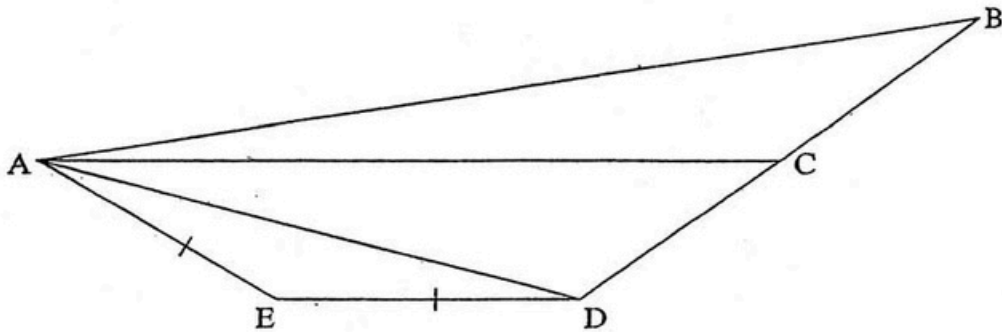


[2]

2. From the diagram shown below

(a) name one isosceles triangle,

Answer _____ [1]



(b) state the **number** of triangles shown.

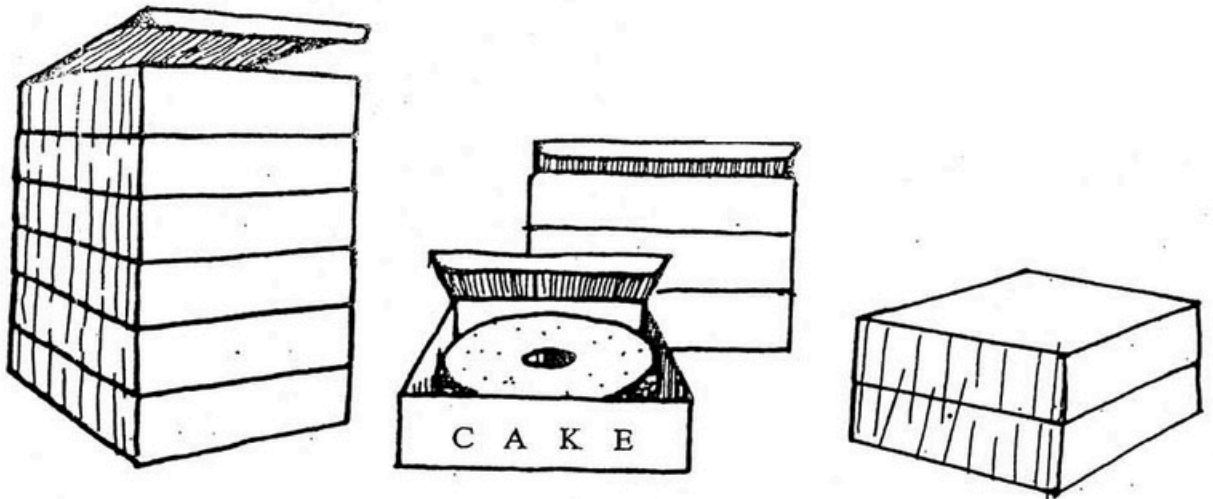
Answer _____ [1]

3. On a map 1 cm represents 40 km.

How many cm would represent 60 km?

Answer _____ cm [2]

4.

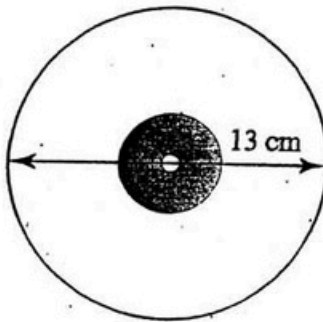


Mother baked 12 cakes. She sold 7 of them.

What percentage of the cakes did she have left?

Answer _____ % [3]

5.



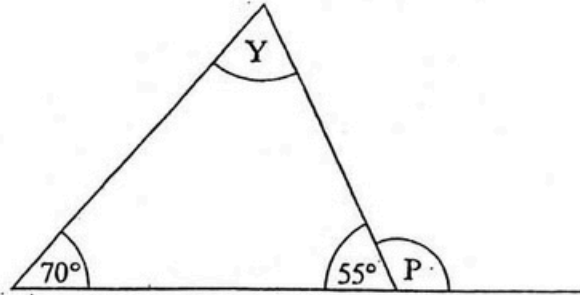
A record has a diameter of 13 cm.

Use $\pi = 3.14$ to calculate its circumference.

6. Calculate the value of

(a) angle Y,

(b) angle P.



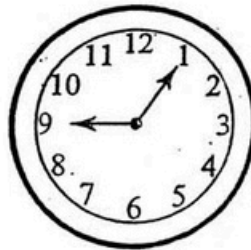
Answer $\hat{Y}$ = _____ ° [2]

Answer $\hat{P}$ = _____ ° [2]

7. Calculate the difference between six thousand two hundred nineteen and five hundred eighty six.

Answer _____ [4]

8.



Cleo has 3 hours to do her chores.

She spends 45 minutes dusting,

35 minutes vacuuming the floor, and

20 minutes folding up the clothes.

- (a) What is the total time spent on chores?

Answer _____ [2]

- (b) How many hours and minutes does she have left?

Answer _____ hr _____ min [2]

9. Factorize

$$6x + 4xy.$$

Answer _____ [2]

10. (a) Express 400 as a product of its prime factors.

Answer _____ [2]

- (b) Write your answer in index form.

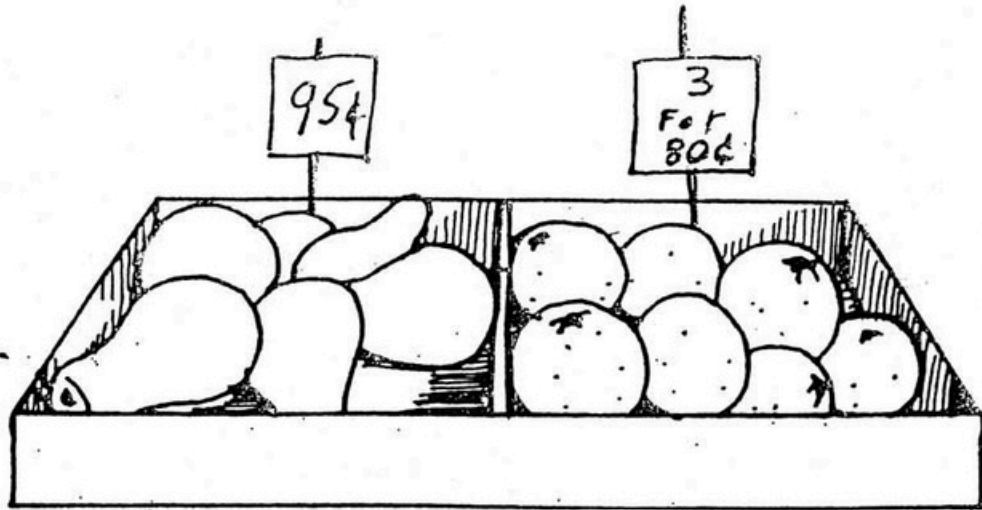
Answer _____ [1]

- (c) Calculate

$$\sqrt{400}$$

Answer _____ [1]

11.



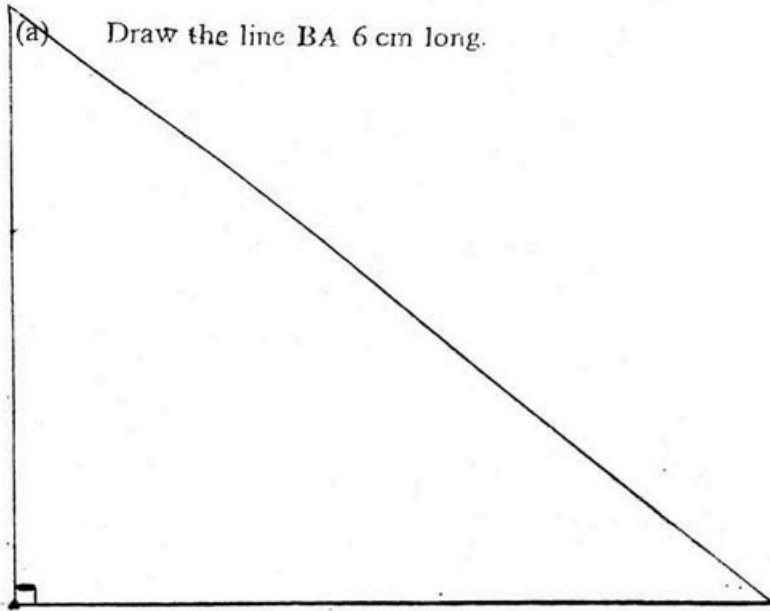
Mrs Jones bought 7 pears at 95 cents each, and 15 oranges at 3 for 80 cents.

Calculate her total bill.

Answer _____

12.

(a) Draw the line BA 6 cm long.

(b) At B draw an angle ABC of 90° .

(c) Mark off the line BC 8 cm long.

(d) Join A to C.

(e) What is the length of AC?

[1]

[1]

[1]

[1]

Answer _____ cm [1]

(f) In the triangle ABC what is the special name given to the line AC?

Answer _____ [1]

13. Simplify

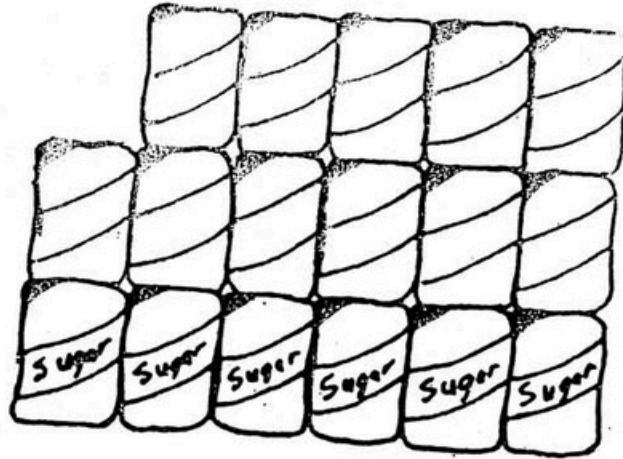
(a) $5m + 7b - 3m + b$.

Answer _____ [2]

Solve

(b) $4b + 3 = b + 18$.

14.



A shopkeeper has 880 packages of sugar.

Each weighs 2.2 kg.

- (a) What is the total weight of the sugar?

Answer _____ kg [2]

- (b) He sends 880 kg to the Family Islands.

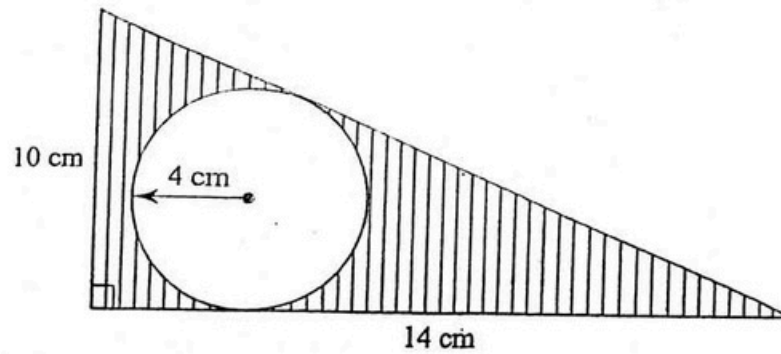
How many packages did he send?

Answer _____ [2]

- (c) Express the weight of the sugar left to the total weight as a fraction in its lowest terms.

Answer _____

15.



The circle has a radius of 4 cm.

- (a) Calculate its area.

(Use $\pi = 3.14$)

Answer _____ cm^2 [2]

- (b) The triangle has base 14 cm and height 10 cm.

Calculate

- (i) the area of the triangle,

Answer _____ cm^2 [2]

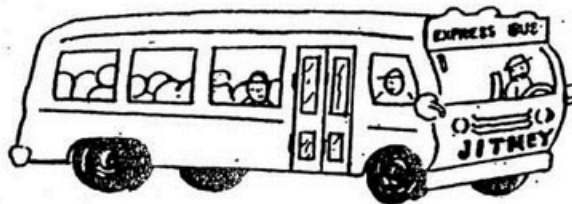
- (ii) the area of the shaded portion.

SECTION B

(40 marks)

Choose FOUR questions only from this section.

16.



Martin is a jitney driver.

He is paid \$4.25 for every trip he makes.

The jitney makes 3 trips per hour.

(a) How much money does he earn in 1 hour?

Answer \$ _____ [2]

(b) Martin works 12 hours each day from Monday to Friday. Calculate the total number of hours he works from Monday to Friday.

(c) He also works 10 hours on Saturday and 5 hours on Sunday.

(i) How many hours does he work for the week?

$$60 + 15 =$$

Answer 75 hours [1]

(ii) How much does he earn for the week?

$$\begin{array}{r} 12.75 \\ \times 75 \\ \hline \$956.25 \end{array}$$

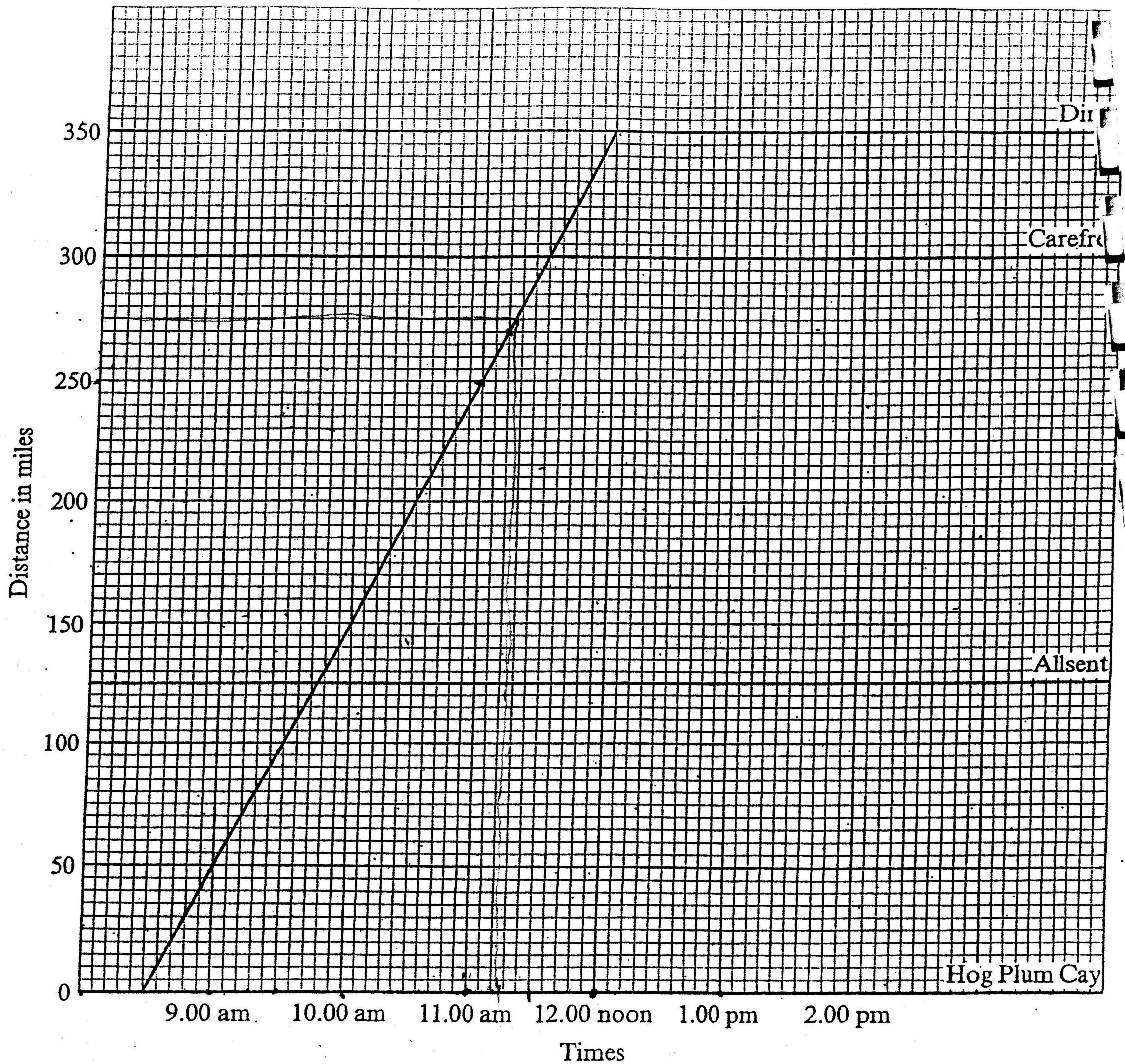
Answer \$ 956.25 [3]

(d) National Insurance deduction is \$5.14 per week.

What is his take home pay?

$$\begin{array}{r} 956.25 \\ - 5.14 \\ \hline \$951.11 \end{array}$$

17. The graph shows the journey of a private aeroplane which departs from Hog Plum Cay and travels through the islands of Allsent and Carefree on its way to Dinty.



- (a) At what time did the plane
(i) depart from Hog Plum Cay,

Answer _____ [1]

- (ii) arrive at Dinty?

Answer _____

- (b) Calculate the time taken to arrive at Dinty from Hog Plum Cay.

Answer _____ [2]

- (c) What is the distance from Hog Plum Cay to Dinty?

Answer _____ km [1]

- (d) How many miles from Hog Plum Cay was the plane at 11 a.m.?

Answer _____ miles [1]

- (e) What time is it when the plane is 25 miles from Carefree?

Answer _____ [1]

- (f) Calculate the average speed for the whole journey.

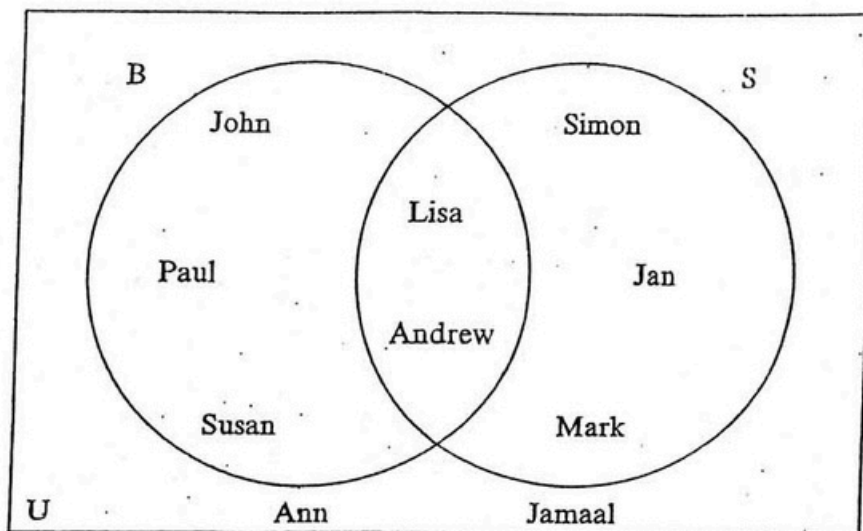
mph [3]

Answer _____

18. (a) The Venn diagram below shows the results of an interview with the children of Street.

$B = \{\text{children who owned bicycles}\},$

$S = \{\text{children who owned skateboards}\}.$



- (b) (i) How many children were interviewed?

Answer _____

- (ii) How many children owned bicycles?

Answer _____

- (iii) Who owned a bicycle and a skateboard?

Answer _____

- (iv) Name the children who had neither.

Answer _____

- (v) How many children owned a skateboard only?

3

Answer _____

- (c) $\mathcal{U} = \{2, 3, 5, 7\}$
 $A = \{\text{factors of } 10\}$
 $B = \{\text{even numbers}\}$

List the member/members of

- (i) Set A,

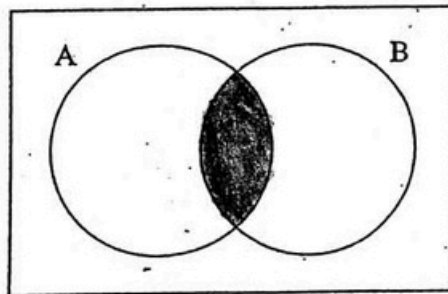
Answer { 2, 5 } [2]

- (ii) Set B.

Answer { 2 } [1]

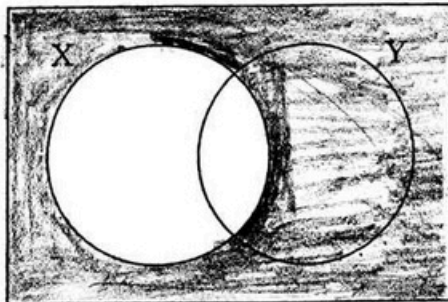
- (d) In each Venn diagram below shade the required region.

- (i)



$A \cap B$

- (ii)

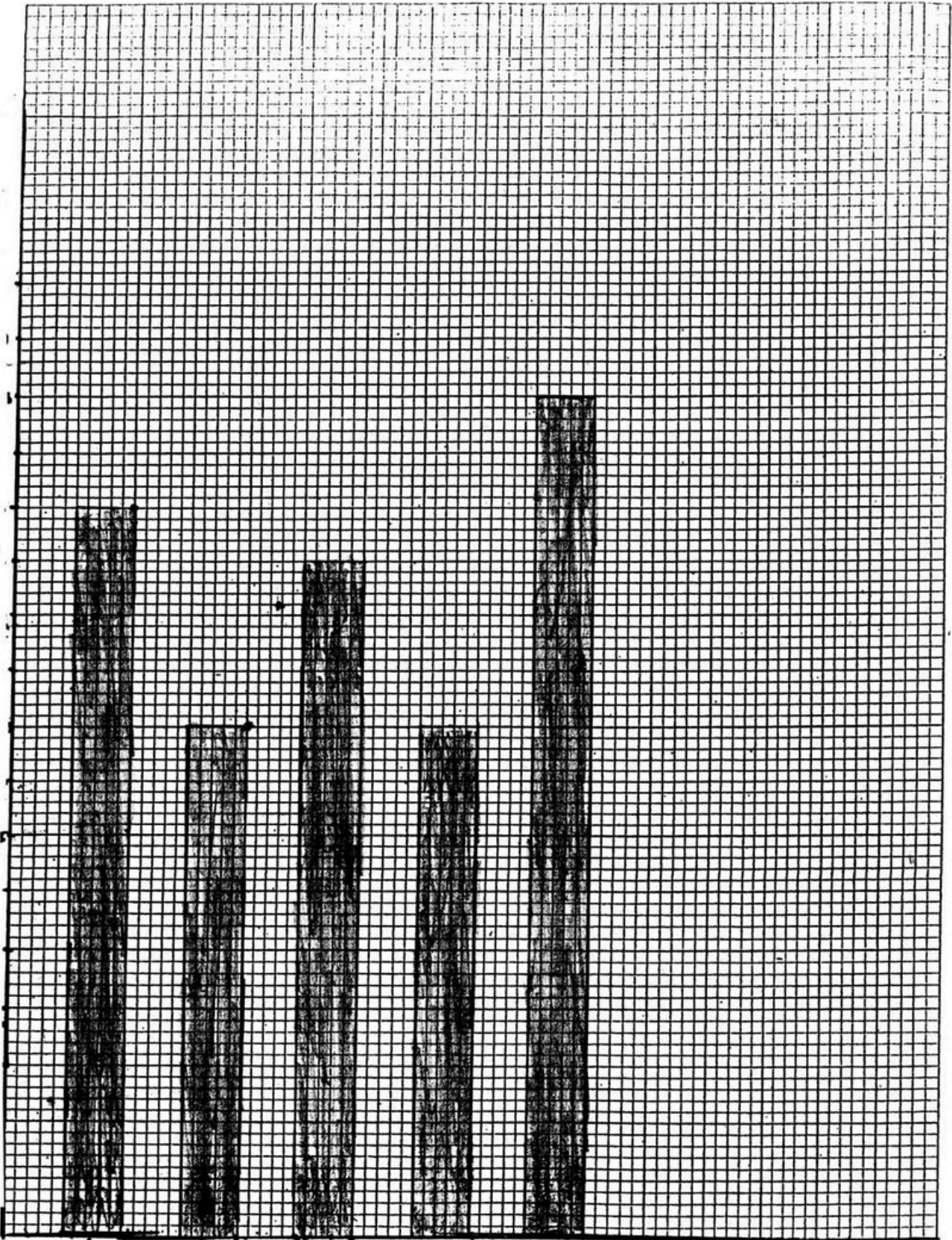


X'

19. Mavis recorded her Math marks for a set of tests.

Test	1	2	3	4	5
Marks	65	45	60	45	75

- (a) Use 2 cm = 1 test on the x-axis
and 1 cm = 5 marks on the y-axis to
show her results on a vertical bar graph.



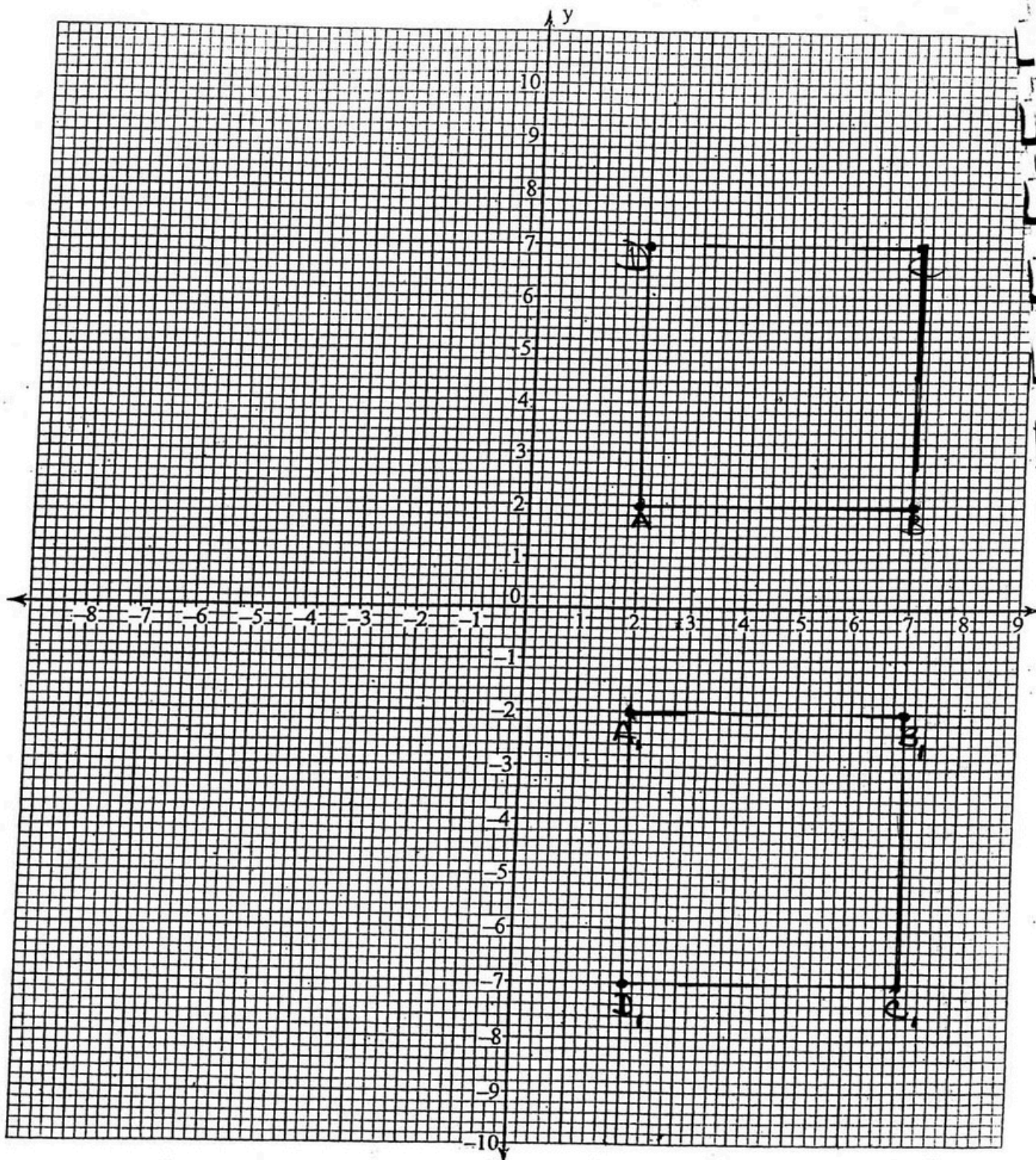
[7]

(b) What is her average mark?

Answer _____ [3]

20. (a) On the graph paper below, plot and label the following points.

A (2, 2), B (7, 2) and C (7, 7).



21. Lily and Margaret **EACH** got \$3,200 as their Asue draw.

Lily spent her money on clothes, vacation, and decorating her room in the ratio 4 : 5 : 7.

- (a) (i) How much did Lily spend on clothes?

Answer \$ _____ [2].

- (ii) What fraction did she spend on her vacation?

Answer _____ [3]

- (iii) What percentage was spent on decorating her room?

Answer _____ % [1]

- (b) Margaret invested her money in a bank at 5% simple interest.

- (i) How much interest will she get at the end of $1\frac{1}{2}$ years?

Answer \$ _____ [3]

- (ii) What is her amount at the end of $1\frac{1}{2}$ years?

Answer \$ _____ [1]

- (b) What is the coordinate of a 4th point D that would complete the square ABCD?

Answer (2 , 7)

- (c) Join the points to complete the square.
(d) Reflect ABCD in the x-axis.
(e) Label the image $A_1B_1C_1D_1$.
(f) Calculate the area of the square ABCD.

Answer 25 sq. units [2]