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Total Marks	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2007

0044 MATHEMATICS PAPER I (50 MARKS)

Wednesday **6 June 2007** 9.00–10.30 AM.

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 the question booklet.

ALL working must be shown.

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

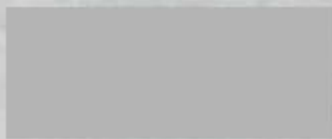
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ALL diagrams are not drawn to scale unless otherwise indicated.

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

Answer ALL of the questions. Show the necessary working.

1. (a)
$$\begin{array}{r} 248 \\ + 3527 \\ \hline 603 \end{array}$$



(b)
$$\begin{array}{r} 7609 \\ - 4295 \\ \hline \end{array}$$



[1,1]

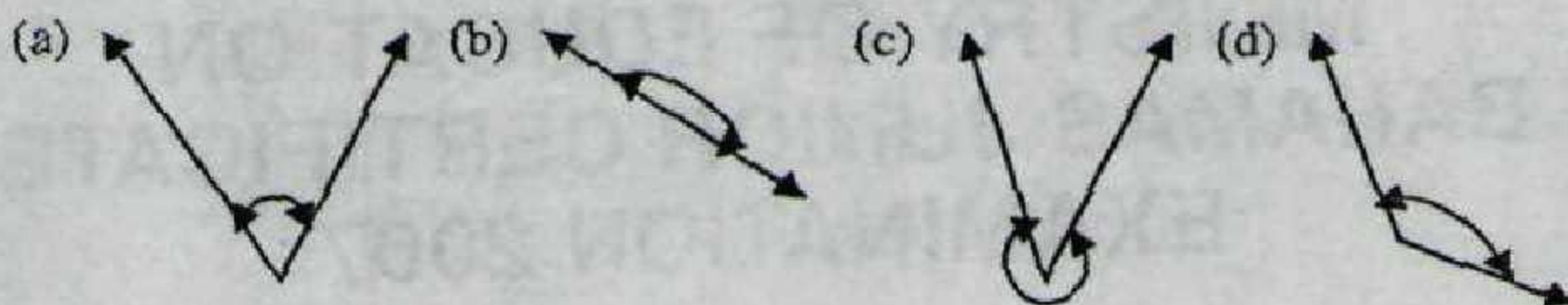
(c)
$$\begin{array}{r} 5841 \\ \times 8 \\ \hline \end{array}$$

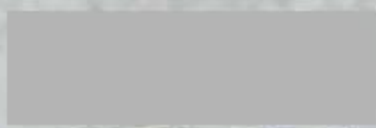


(d)
$$7 \overline{)931}$$

[1,1]

2. Write the letter which indicates the reflex angle.



Answer:  [1]

3. Write the number that is **NOT** a square number.

49

16

30

9

Answer:  [1]

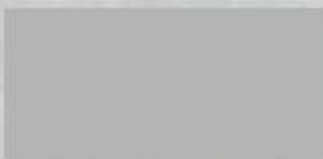
4. Write a number that is **NOT** a prime number.

2

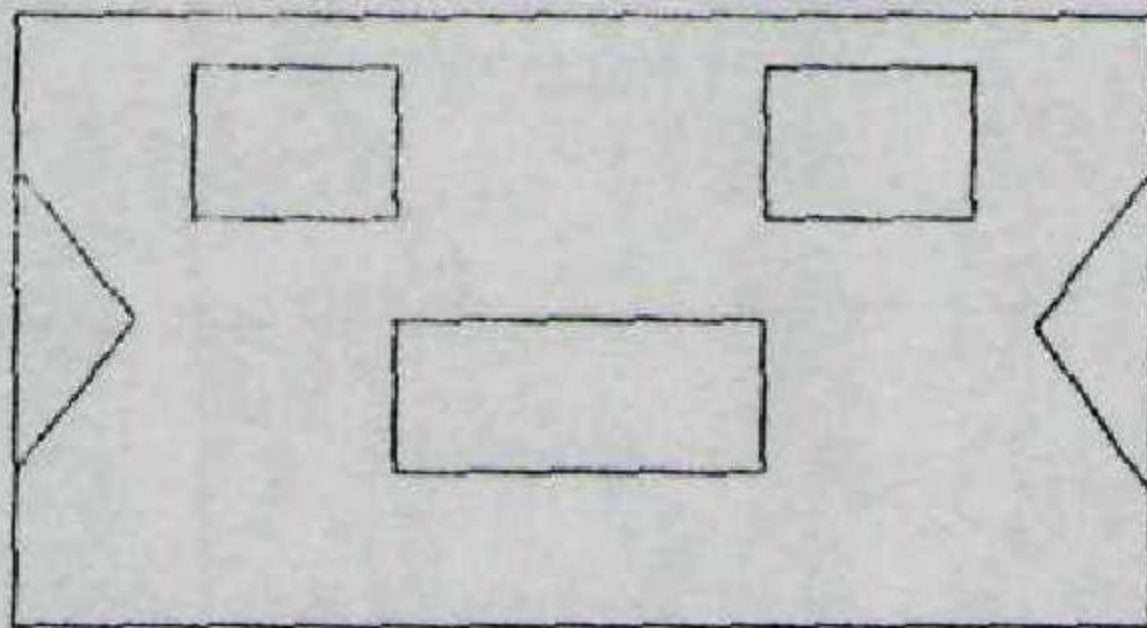
3

7

21

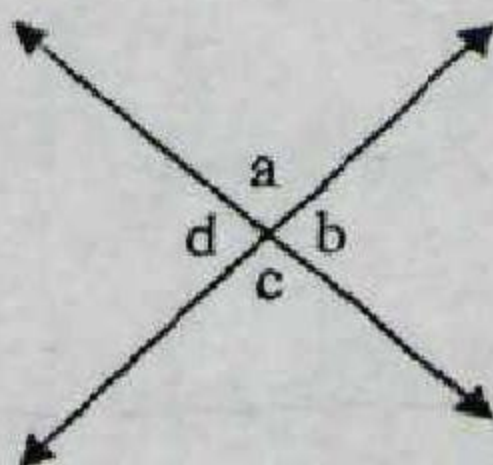
Answer:  [1]

5. Draw in the line of symmetry in the picture below.



[1]

6. Study the diagram below then answer the questions.



Write down

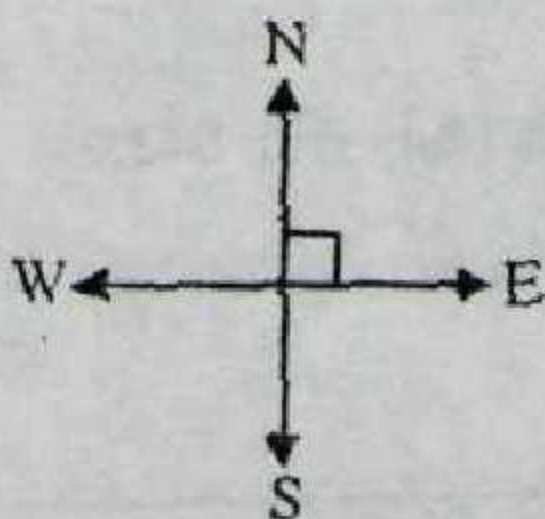
- (a) one pair of vertically opposite angles.

Answer: _____ [1]

- (b) one pair of supplementary angles.

Answer: _____ [1]

7. I begin at due north and travel in a clock-wise direction to due west. Through how many degrees have I travelled?



Answer: _____ [1]

8. Find the value of

$$2^3 \times 3^3$$

Answer: _____ [3]

9.

24	42	51
6	89	27
49	31	65

From the numbers above, write down

- (a) a multiple of 4.

Answer: _____ [1]

- (b) a factor of 12.

Answer: _____ [1]

- (c) a cube number.

Answer: _____ [1]

10.

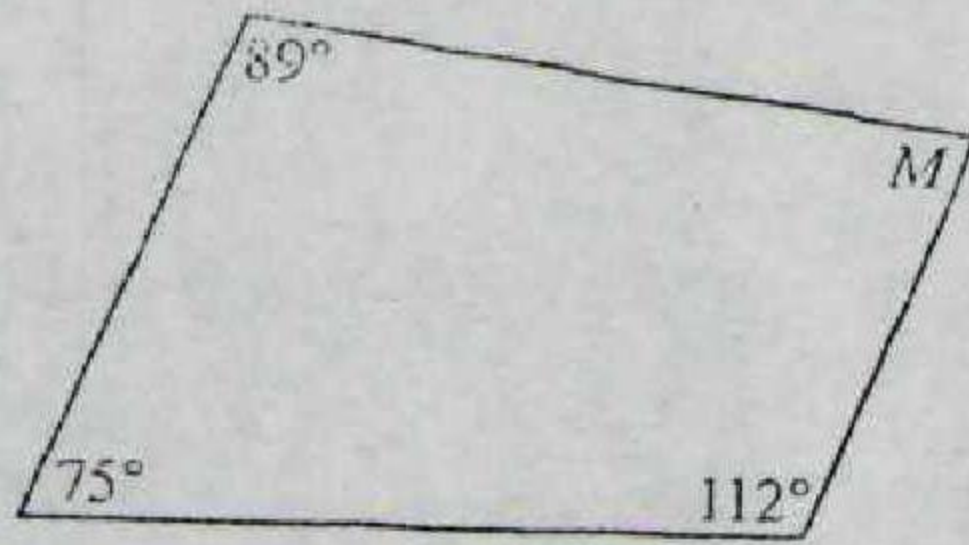


\$8.00 each

One book costs \$8.00. How many books can I buy with \$42.00?

Answer: _____ [2]

11. Calculate the size of angle M .



Answer: _____ [3]

12. Evaluate:

$$\frac{3}{5} \times \frac{1}{4} \div \frac{3}{8}$$

Answer: _____ [3]

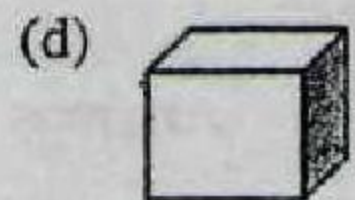
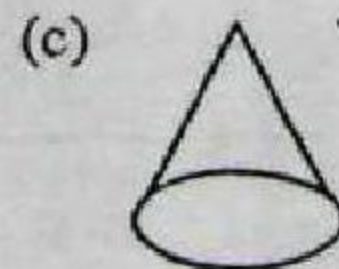
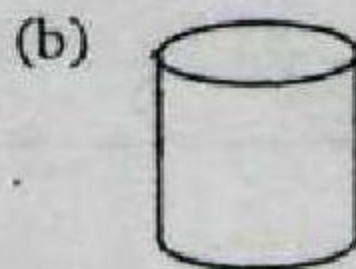
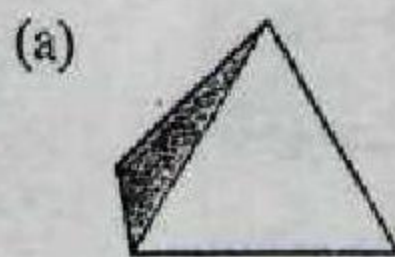
13. Use a pencil, a ruler and a pair of compasses to bisect the line TR.

T _____ R

[3]

14. From the list below, choose the name that describes the solids below.

Cone	Cube	Cylinder	Pyramid
------	------	----------	---------



Answer: (a) _____ [1]

(b) _____ [1]

(c) _____ [1]

(d) _____ [1]

15.

F	R	A	C	T	I	O	N	S
---	---	---	---	---	---	---	---	---

A card is selected at random from the cards shown above. What is the probability that it is

- (a) a vowel? (a, i, o)

Answer: _____ [2]

- (b) one of the first three letters of the alphabet?

Answer: _____ [2]

16.

Grade	Number of students
A	3
B	10
C	14
D	3
E	5

The table represents the grades of a class in a recent test.

- (a) How many students are in the class?

Answer: _____ [1]

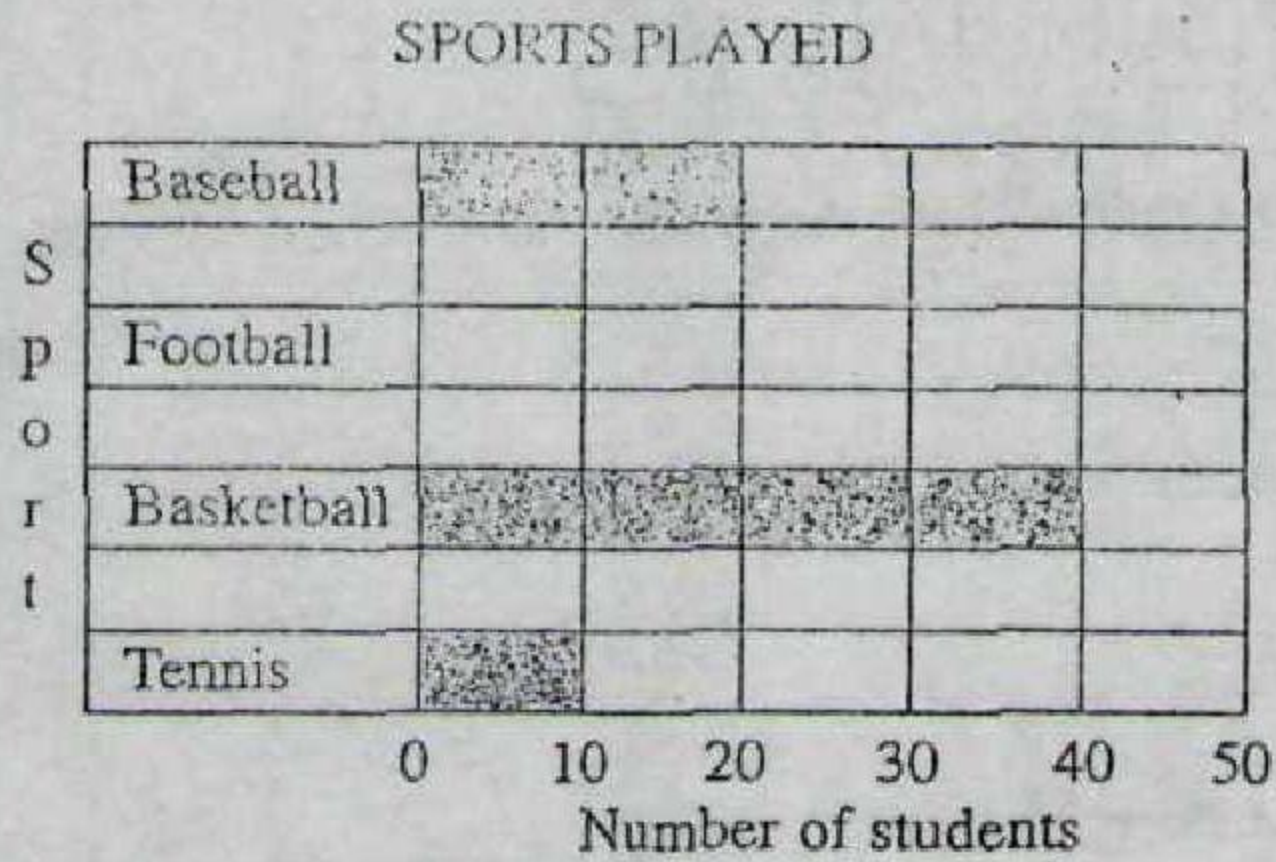
- (b) What is the modal grade?

Answer: _____ [1]

- (c) To the nearest whole number, what percentage of the class received an 'A' grade?

Answer: _____ [3]

17. The bar chart below represents the sport played by a group of 100 students.



- (a) Draw in the bar to represent the number who played football.

[2]

- (b) Which sport had the largest number of players?

Answer: _____ [1]

- (c) Which sport had ten (10) players more than tennis?

Answer: _____ [1]

18. (a) Simplify by collecting the like terms.

$$8d - 5d + 3d$$

Answer: _____ [1]

- (b) Solve for y .

$$y + 12 = 27$$

Answer: _____ [2]

- (c) When $a = 3$, $b = 0$ and $c = 11$, find the value of

$$ab + c$$

Answer: _____ [2]

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Total Marks	

SCHOOL No.	CANDIDATE No.
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**MINISTRY OF EDUCATION
BAHAMAS JUNIOR CERTIFICATE
EXAMINATION 2007**

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

Thursday 7 June 2007 9.00–11.00 AM.

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 the question booklet.

ALL working must be shown.

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

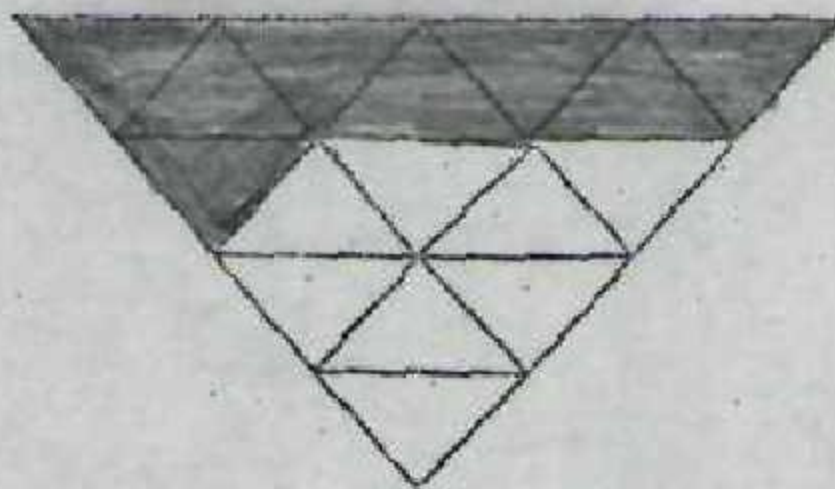
ALL working is to be done in **blue or black ink**. Working and answers written in pencil, **except constructions and graphs**, may not be marked.

ALL diagrams are not drawn to scale unless otherwise indicated.

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

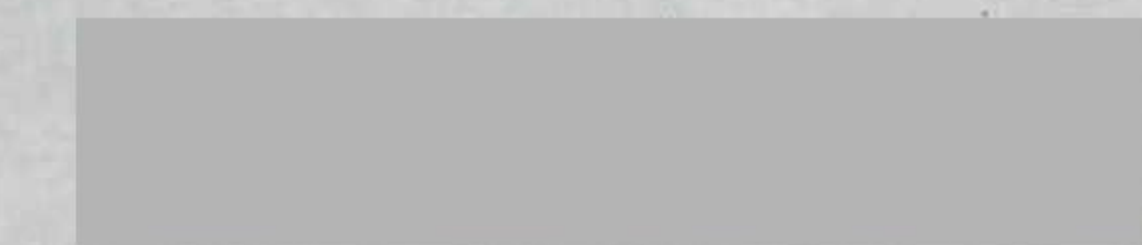
Answer ALL questions. Show ALL necessary working.

1. Shade $\frac{1}{2}$ of the figure.



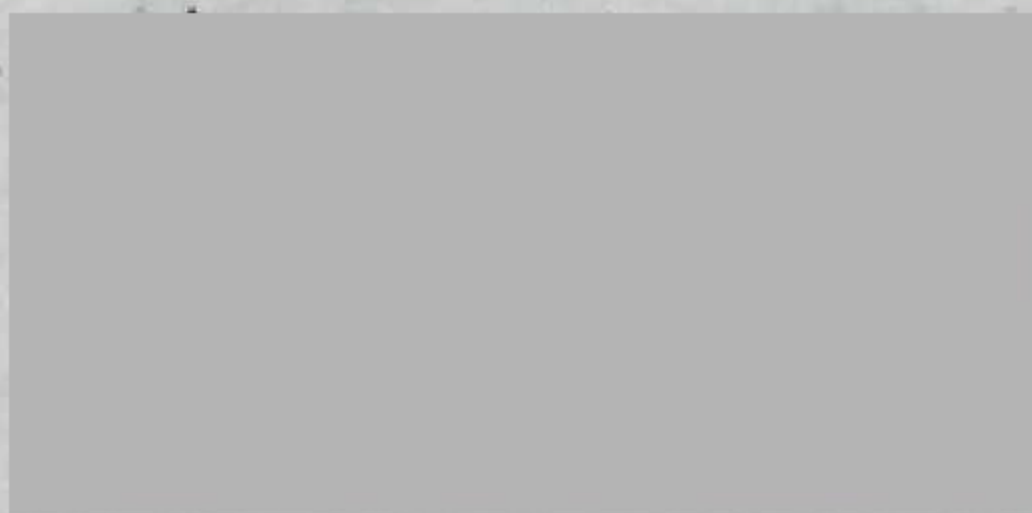
[1]

2. The product of two numbers is 720. One of the numbers is 12. What is the other number?



Answer: _____ [2]

3. Express 48 minutes as a fraction of one hour in its lowest terms.



Answer: _____ [2]

4. Simplify

$$\frac{7x^2y}{28xy}$$

Answer: _____ [2]

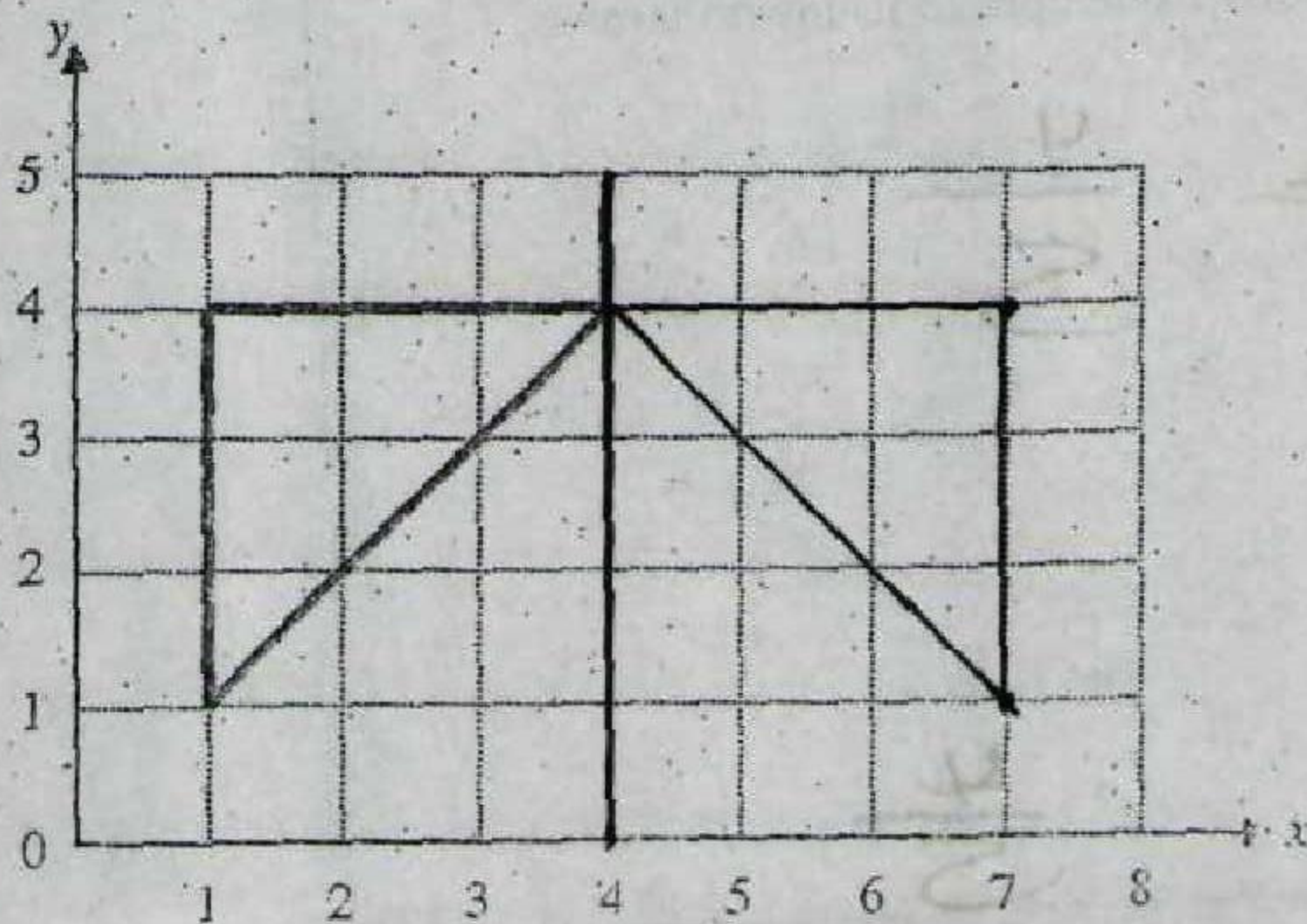
5. Add together

$$5x + 7, \quad 3x - 8 \quad \text{and} \quad 6x - 25.$$

Answer: _____ [3]

6. (a) Draw a line joining the points (4,0) and (4,5).

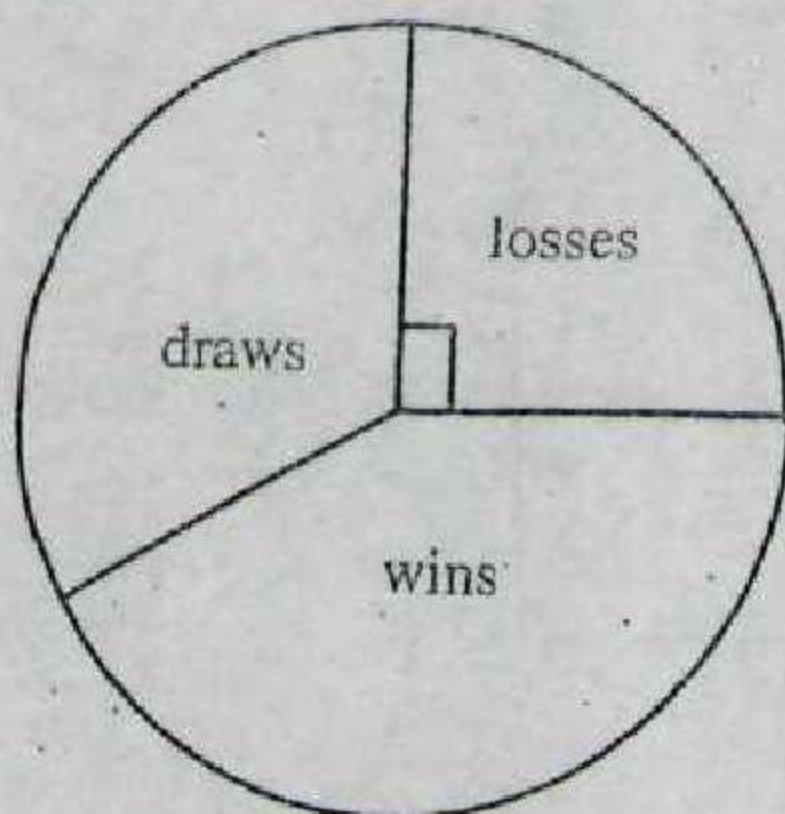
[1]



(b) Reflect the triangle in that line.

[2]

7. A football club played 60 matches for the season. The pie chart shows the proportion of wins, draws and losses.



- (a) Measure and write down the size of the angle representing the **draws**.

Answer: [REDACTED]

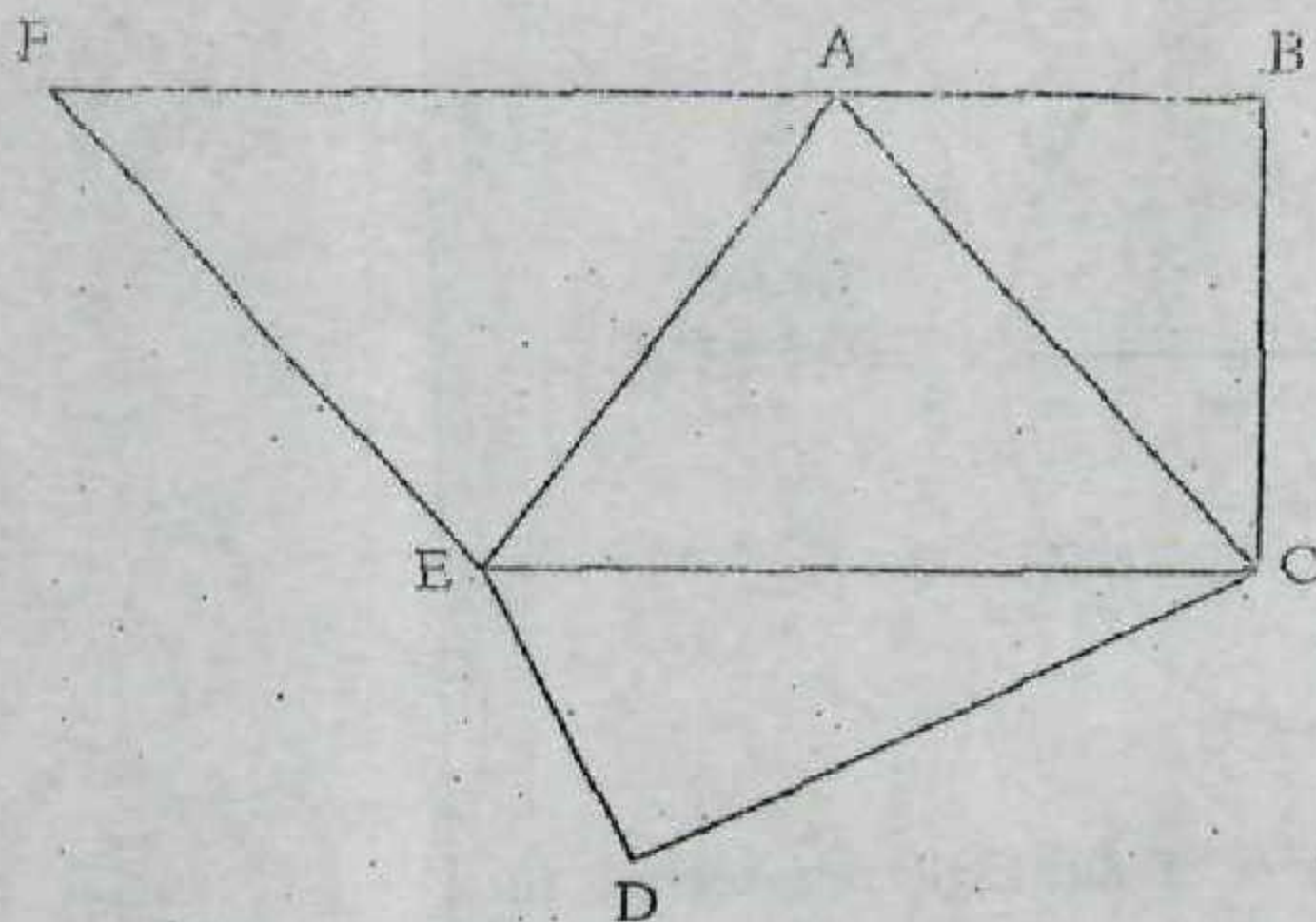
[1]

- (b) Calculate the number of losses.

Answer: [REDACTED]

[2]

8. In the figure, $AB = BC$,
 $AC = AE$,
 $CE = AE$,
 $AF = BF$.



Using each triangle ONLY ONCE, name

- (a) an isosceles triangle.

Answer $\triangle$

[1]

- (b) an equilateral triangle.

Answer:

[1]

- (c) a right-angled triangle.

Answer

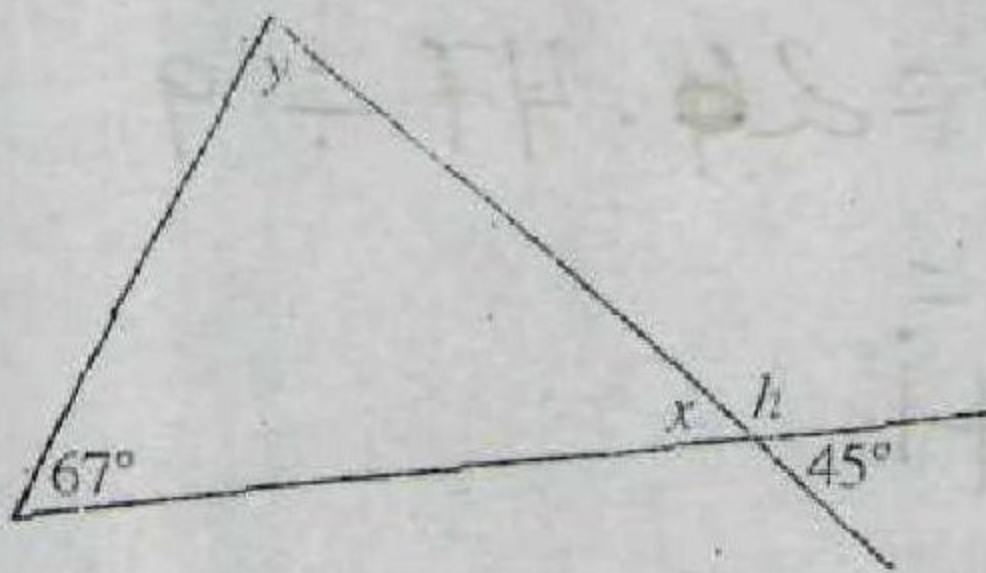
[1]

- (d) a right-angled isosceles triangle.

Answer:

[1]

9.



NOT TO SCALE

- (a) Write down the size of angle x .

Answer: _____ [1]

- (b) Find the size of

- (i) angle h .

Answer: _____ [2]

- (ii) angle y .

Answer: _____ [2]

10. (a) Divide 2.647 by 0.9.

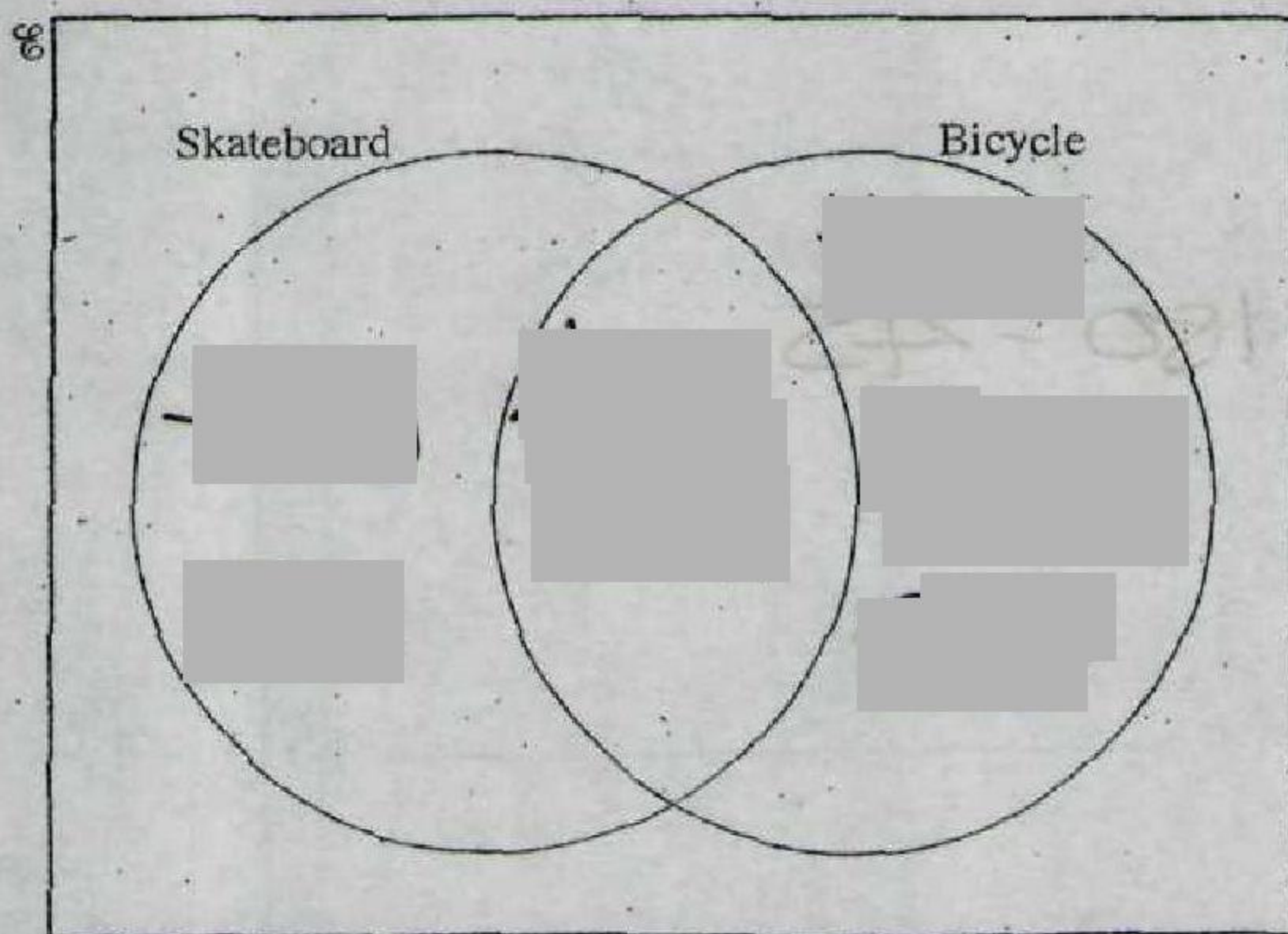
Answer: _____ [3]

(b) Write your answer correct to one decimal place.

Answer: _____ [1]

11. Of the seven children living on Baewest Lane; Jaime, Peter, Mark, Lilly and Kermit own bicycles. Sally, Lilly, Jen and Mark own skateboards.

(a) Represent this information on the Venn diagram below.



[3]

(b) Name the child/children who own both a skateboard and a bicycle.

Answer: _____ [1]

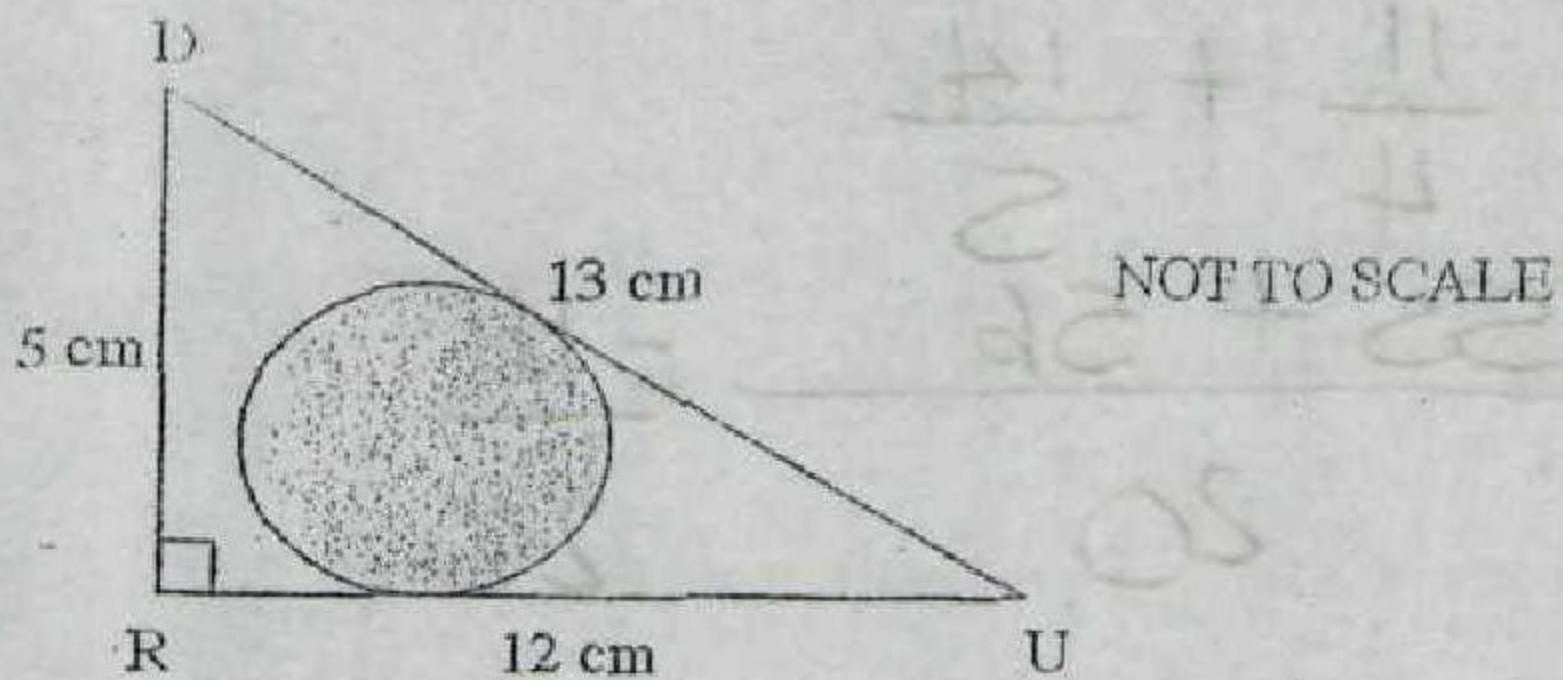
12. (a) Construct $\triangle ABC$ such that $AB = 4$ cm, $AC = 3$ cm and $BC = 5$ cm. [3]



- (b) Measure and write down the size of $\angle ABC$.

Answer:  [1]

14.



Calculate

- (a) (i) the area of $\triangle DRU$.



Answer: _____ [2]

- (ii) the area of the circle of radius 2 cm using $\pi = 3.14$.



Answer: _____ [2]

- (b) the area of the **un-shaded** region.



Answer: _____ [1]

15. (a) Calculate the sum of

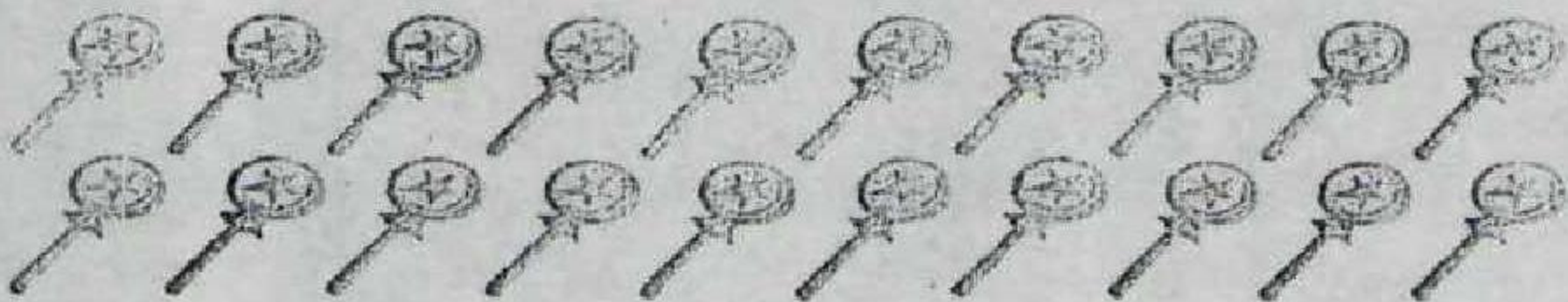
$$2\frac{3}{4} \text{ and } 2\frac{4}{5}$$

Answer: _____ [4]

(b) Subtract your answer in (a) from 6.

Answer: _____ [2]

16.



Mary had 20 lollipops. She gave "2p" of them to Jane and had 6 lollipops left.

- (a) Write an equation using "p" to show this information.

[Redacted]

[2]

- (b) Solve the equation for "p".

[Redacted]

Answer:

[Redacted]

[3]

- (c) How many lollipops did Jane receive?

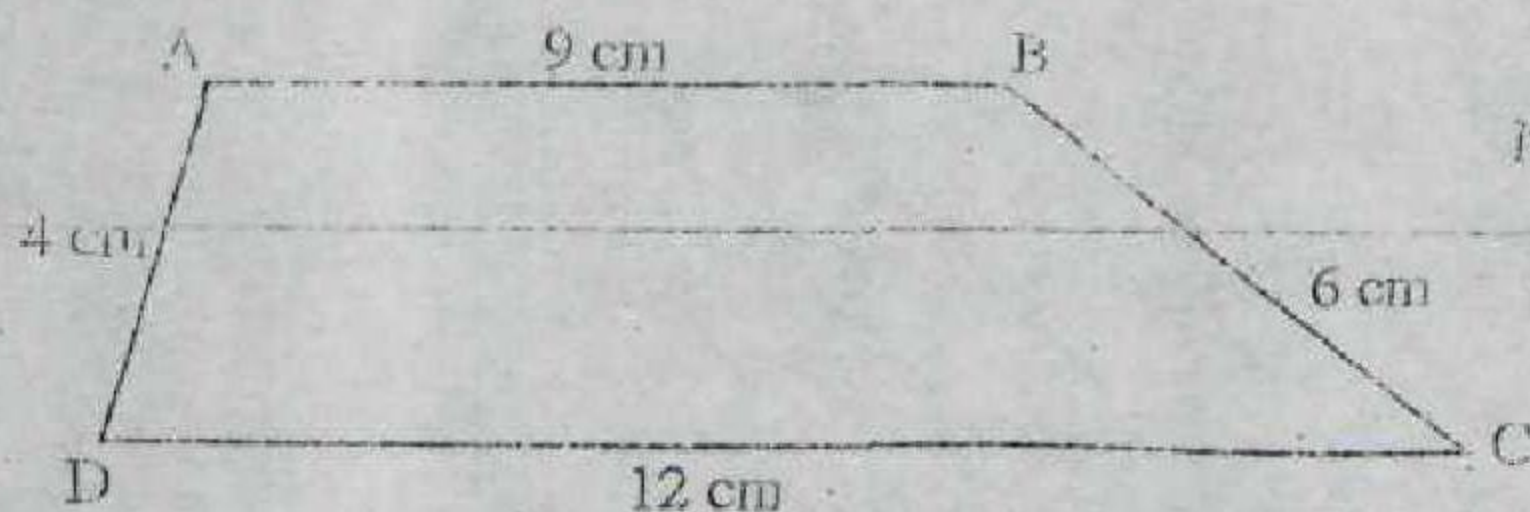
[Redacted]

Answer:

[Redacted]

[1]

17.



NOT TO SCALE

ABCD is a sketch of a playing field where 1 cm represents 3 km

- (a) Calculate, in km, the perimeter of ABCD:

Answer: _____ [3]

Fencing costs \$11 per metre.

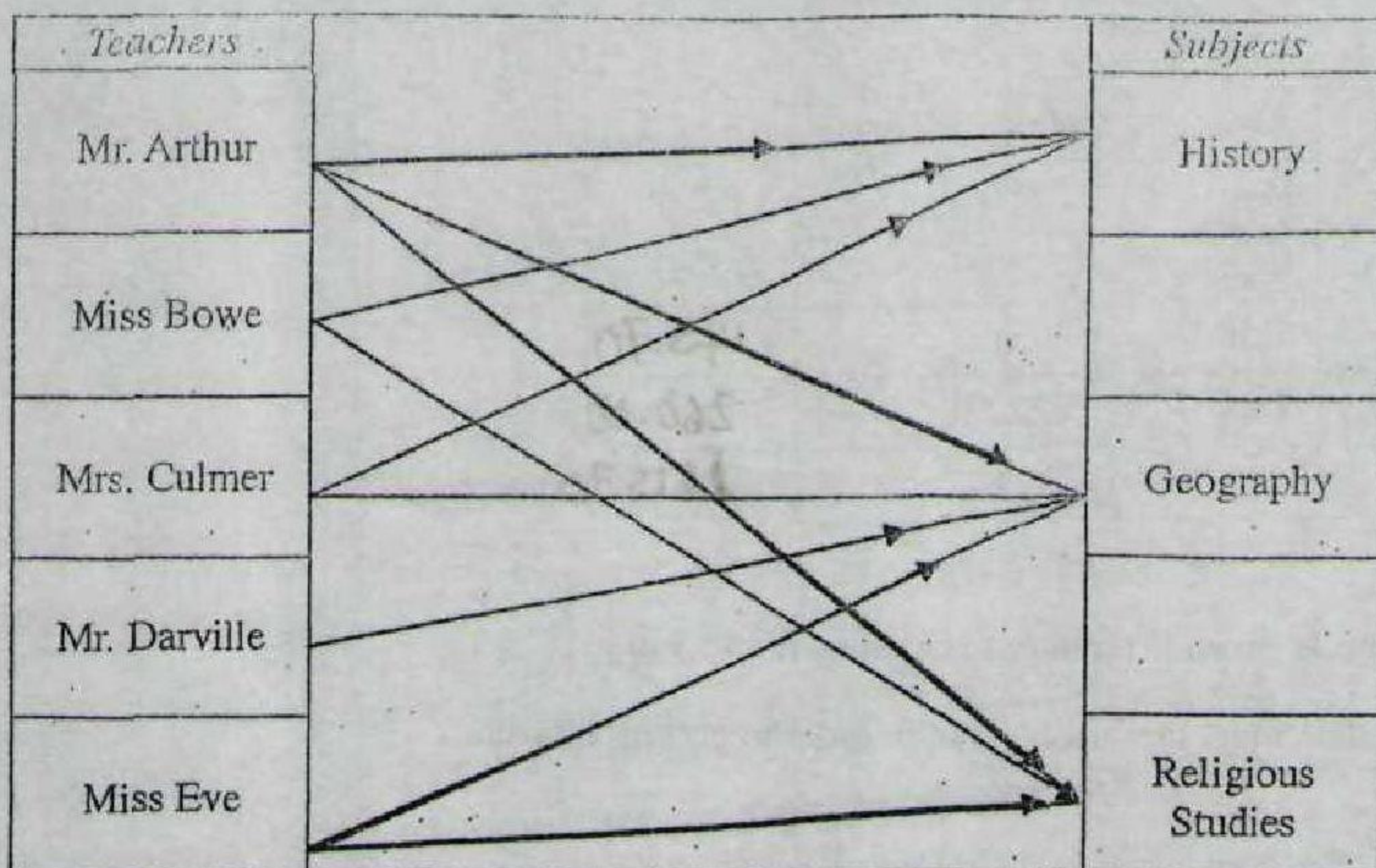
- (b) (i) Convert your answer in (a) to metres.

Answer: _____ [2]

- (ii) Calculate the cost of fencing the entire playing field.

Answer: _____ [2]

18. The diagram shows three subjects being taught by five teachers.



From the diagram, list the teacher(s) who

(a) teach History.

Answer: _____ [2]

(b) teach Religious Studies.

Answer: _____ [2]

(c) teach all three subjects?

Answer: _____ [1]

(d) teaches one subject only?

Answer: _____ [1]

(e) does not teach Geography?

Answer: _____ [1]

- 19 (a) Complete the shopping bill.

The Klassy Clothing Store			
Date: January 12th, 2001			
Number	Item	Price for each	Cost
12	Pants	\$38.50	\$462.00
10	Handbags	\$75.00	\$750.00
6	Skirts	\$23.95	i. _____
8	Ties	\$32.50	ii. _____
		TOTAL:	iii. _____

[3]

A discount of 10% is given if payment is made within 15 days.

- (b) By what date must the bill be paid in order to get the discount?

Answer: _____

[1]

- (c) Calculate the amount of the discount.

Answer: _____

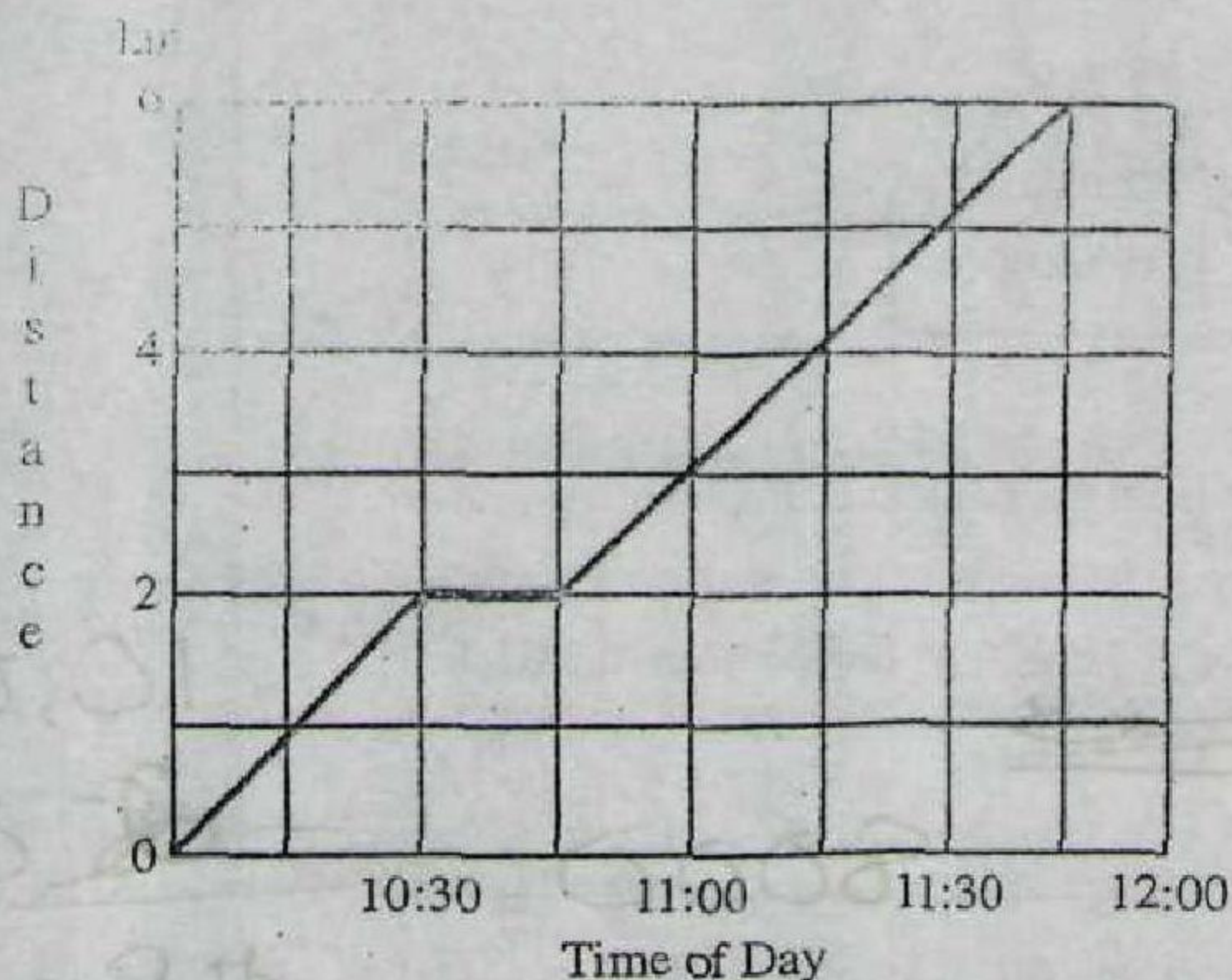
[2]

- (d) How much must be paid if the bill is paid on time?

Answer: _____

[2]

20. Sarah left work to go to the Clinic. The graph shows her journey in km.



(a) What time did Sarah leave work?

Answer: _____ [1]

(b) How far is the clinic from Sarah's workplace?

Answer: _____ [1]

(c) Sarah stopped for a rest. How long did she stop?

Answer: _____ [1]

(d) How far did Sarah travel before taking a rest?

Answer: _____ [1]

(e) How far from the clinic was Sarah at 11:15 a.m.?

Answer: _____ [1]

(f) How much further had she to walk after the rest period?

Answer: _____ [1]

(g) What was her average speed for the journey before the rest stop?

Answer: _____ [3]



Mrs. Rolle purchases a car which costs \$10,000. She pays a deposit of \$2,000. She borrows the rest from the bank at a simple interest rate of 12% per annum for three years.

- (a) (i) How much money does she borrow from the bank?

[Redacted]

Answer: [Redacted] [1]

- (ii) Calculate the simple interest on the Principal.

[Redacted]

Answer: [Redacted] [3]

- (b) How much does she repay the bank altogether?

Answer: [Redacted] [2]

She makes equal monthly payments of \$300 except for the final month.

- (c) How much is her final payment?

[Redacted]

Answer: [Redacted] [4]

$x = \frac{1}{5} \div 5$

5 km

4 km

2 km