

Name: \_\_\_\_\_ ( )

Class: Primary 6 \_\_\_\_\_

**CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**



**Primary 6 Mathematics**

**2023 Preliminary Examination**

**Paper 1**

**Booklet A**

**21 August 2023**

**15 questions  
20 marks**

**Total Time for Booklets A and B: 1 hour**

**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.  
Follow all instructions carefully.  
Answer all questions.  
Write your answers in this booklet.  
The use of calculators is **NOT** allowed.

This booklet consists of 10 printed pages.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3, or 4) on the Optical Answer Sheet. (20 marks)

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1. Which one of the following is one million, three hundred thousand and seventy in figures?

- (1) 1 003 070
- (2) 1 003 700
- (3) 1 300 070
- (4) 1 300 700

2. Which one of the following when rounded to the nearest thousand is 60 000?

- (1) 59 097
- (2) 59 483
- (3) 60 123
- (4) 60 599

3. Abraham invested \$18 000 in an investment fund. The bank paid 4% interest at the end of each year. How much interest did he earn at the end of 1 year?

- (1) \$18 720
- (2) \$17 280
- (3) \$7200
- (4) \$720

4. The table below shows the time taken by 4 swimmers in a competition. Who is the fastest swimmer?

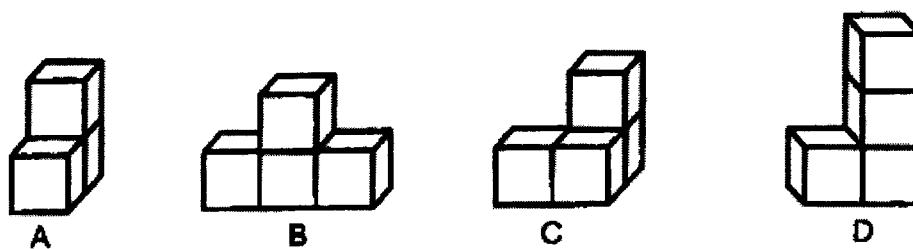
Swimmer	Balan	Carson	Darvesh	Ee Yong
Time taken (min)	4.2	4.02	4.28	4.1

- (1) Balan
- (2) Carson
- (3) Darvesh
- (4) Ee Yong

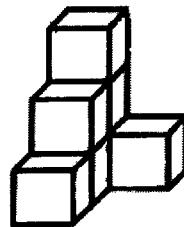
5. Figera has two 10 ¢ coins, six 20 ¢ coins and three 50 ¢ coins. What is the least number of coins that she can use to make \$2?

- (1) 6
- (2) 5
- (3) 3
- (4) 4

6. Identical cubes were glued together to form the 4 solids, A, B, C and D.

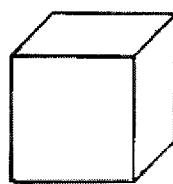


Which 2 solids could be joined to form the solid below?

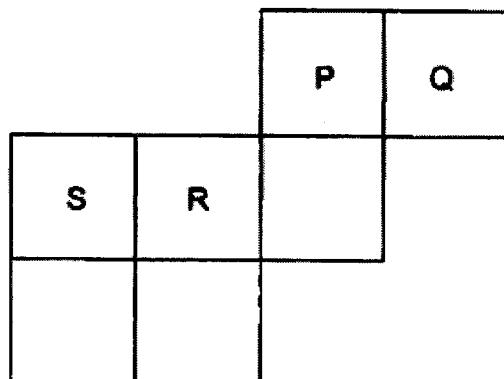


- (1) A and B
- (2) A and D
- (3) B and C
- (4) C and D

7. The figure below shows a cube.

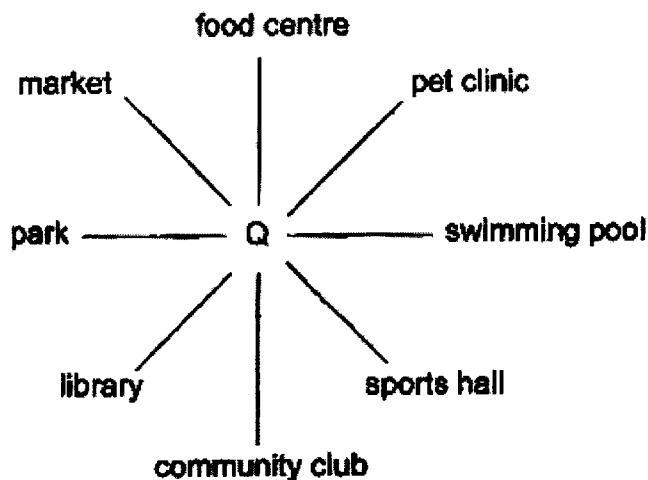


Which one of the following faces, P, Q ,R or S in the figure is not part of the net of the cube ?



- (1) P
- (2) Q
- (3) R
- (4) S

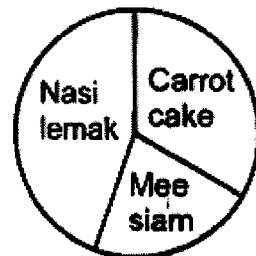
8. Gayatri is standing at point Q facing the market. Which place will she be facing if she turns  $225^\circ$  anti-clockwise?



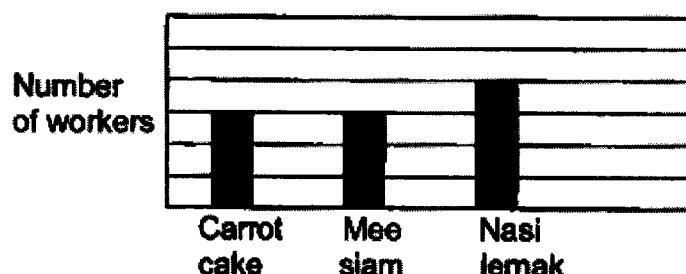
- (1) park  
(2) library  
(3) swimming pool  
(4) community club
9. The sum of 6 numbers is 70. The average of 4 of the numbers is 12. What is the sum of the remaining numbers?

- (1) 11  
(2) 22  
(3) 29  
(4) 58

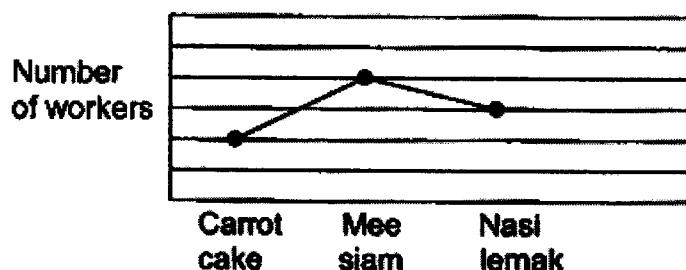
10. A group of workers was asked to vote for their favourite food, carrot cake, mee siam and nasi lemak. The pie chart shows the workers' choices. The workers' choices were also represented by 4 graphs. Which of the following graphs best represents the information in the pie chart?



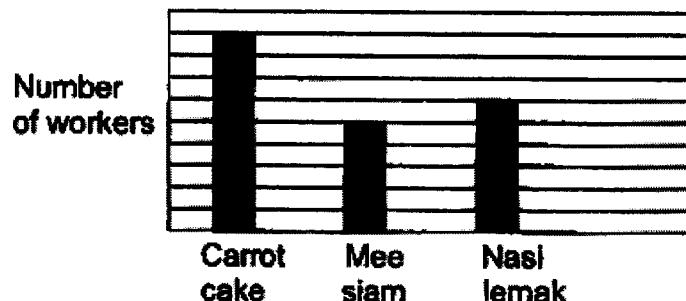
(1)



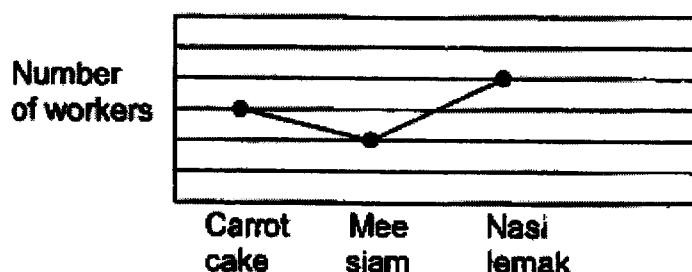
(2)



(3)



(4)



11. The table below shows the number of families with different number of children in a block of flats. There are 300 children altogether.

Number of children per family	0	1	2	3	4
Number of families	15	23	51	?	10

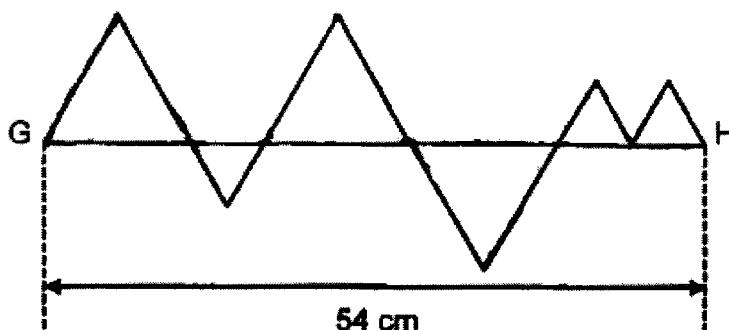
How many families are there with 3 children each?

- (1) 40
- (2) 45
- (3) 120
- (4) 135

12. One sandwich costs 5 times as much as one pie. Iker has just enough money to buy four such sandwiches and eight such pies. However, he only wants to buy pies. What is the greatest number of pies he can buy with  $\frac{3}{5}$  of his money?

- (1) 15
- (2) 16
- (3) 17
- (4) 18

13. The figure below is formed by 3 big identical equilateral triangles and 3 small identical equilateral triangles. The length of GH is 54 cm. What is the perimeter of the figure?



- (1) 162 cm  
(2) 324 cm  
(3) 486 cm  
(4) 972 cm
14. During an enrichment lesson, each pupil in a class was given either 2 or 3 dice. The ratio of the number of pupils to the number of dice given was 9 : 23. What fraction of the pupils were given 2 dice each?

(1)  $\frac{4}{9}$

(2)  $\frac{5}{9}$

(3)  $\frac{5}{14}$

(4)  $\frac{9}{14}$

15. Figure X is a trapezium and Figure Y is a parallelogram. Which pair of the following statements is true?

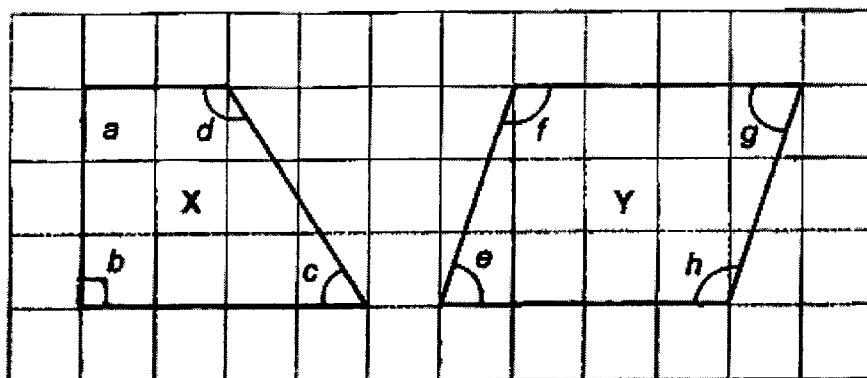


	Figure X	Figure Y
(1)	Opposite sides are parallel	Opposite sides are parallel
(2)	Has one pair of perpendicular lines	Does not have any pair of perpendicular lines
(3)	$\angle c + \angle d = 180^\circ$	$\angle f + \angle h = 180^\circ$
(4)	$\angle a + \angle b = 180^\circ$	$\angle e + \angle h = 180^\circ$

Name: \_\_\_\_\_ ( )

Class: Primary 6 \_\_\_\_\_

**CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**

**Primary 6 Mathematics  
2023 Preliminary Examination**

**Paper 1****Booklet B****21 August 2023**

**15 questions  
25 marks**

<b>Booklet A</b>	<b>20</b>
<b>Booklet B</b>	<b>25</b>
<b>Total (Paper 1)</b>	<b>45</b>

**Total Time for Booklets A and B: 1 hour****INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.  
 Follow all instructions carefully.  
 Answer all questions.  
 Write your answers in this booklet.  
 The use of calculators is NOT allowed.

This booklet consists of 11 printed pages.

Questions 16 to 20 carry 1 mark each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

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16. The total height of a doll and a box is 1.09 m. The height of the box is more than 0.2 m but less than 0.9 m. It is a decimal with 2 decimal places. Write down a possible height of the doll.

Ans: \_\_\_\_\_ m

17. Find the value of  $3 - \frac{1}{8}$ . Leave your answer as a mixed number in the simplest form.

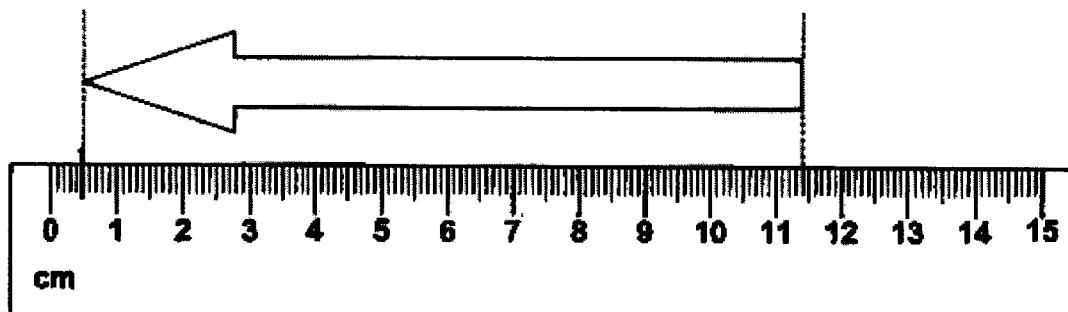
Ans: \_\_\_\_\_

18. 60% of a number is 150. What is the number?

Ans: \_\_\_\_\_

19. What is the length of the arrow?

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Ans: \_\_\_\_\_ cm

20. The table shows the number of Primary 6 pupils who had their weight measured. Some information was smudged with ink.

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Category	Number of boys	Number of girls	Number of Primary 6 pupils who had their weight measured
Underweight	15	19	34
Acceptable Weight	118	97	
Overweight	11		
Total number of Primary 6 Pupils			276

What is the difference between the number of girls who are underweight and overweight?

Ans: \_\_\_\_\_

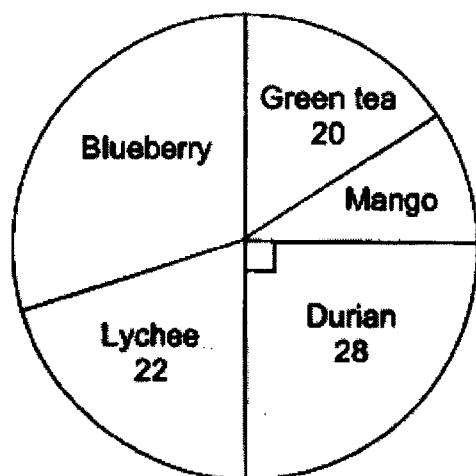


Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

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21. The pie chart represents the number of the different flavours of cakes in a bakery. What is the total number of blueberry cakes and mango cakes?



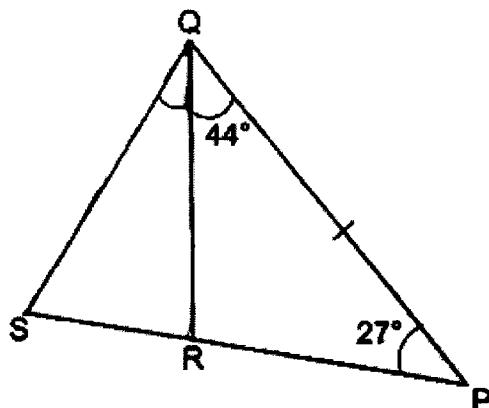
Ans: \_\_\_\_\_

22. A bowl cost \$ $r$  and a pot cost \$14 $r$ . Jacie bought 7 such bowls and 1 pot. She had \$30 left. How much money did she have at first? Leave your answer in terms of  $r$ .

Ans: \$ \_\_\_\_\_

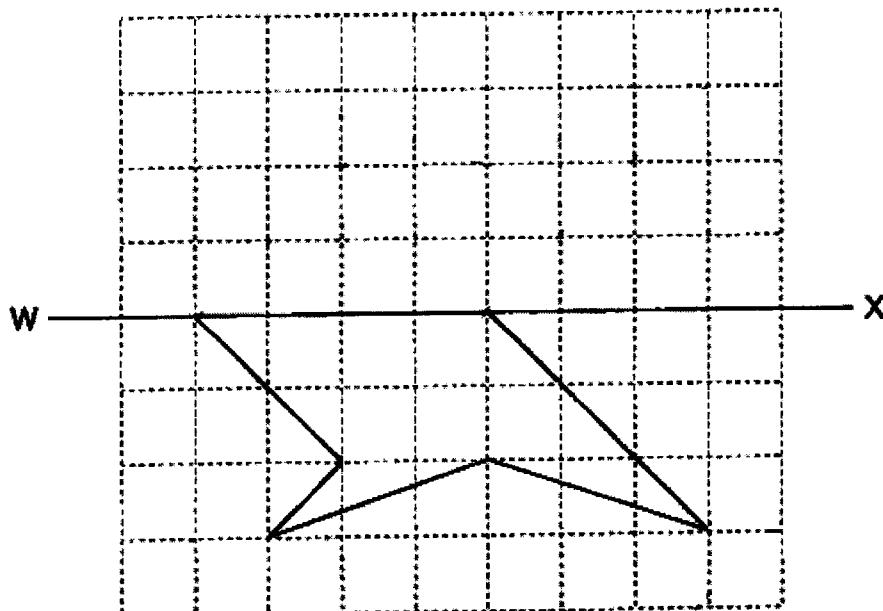
23. In the figure,  $PQ = PS$  and QR is a straight line. Find  $\angle RQS$ .

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Ans: \_\_\_\_\_ °

24. Complete the figure below to form a symmetric figure. WX is the line of symmetry.



25. Nathim's present age is a factor of 72. Two years ago, his age was a multiple of 4. Write down the possible present of ages Nathim.

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Ans: \_\_\_\_\_

26. Ko Sheen took a total of 10 minutes to jog 5 rounds. Each round was 0.4 km. Find her average speed for the 5 rounds.

Ans: \_\_\_\_\_ m / min

27. Leroy was  $\frac{1}{5}$  h late for a musical. He watched the musical for 1 h 38 min before it ended at 3.15 p.m.

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- (a) For how many minutes was Leroy late for the musical?

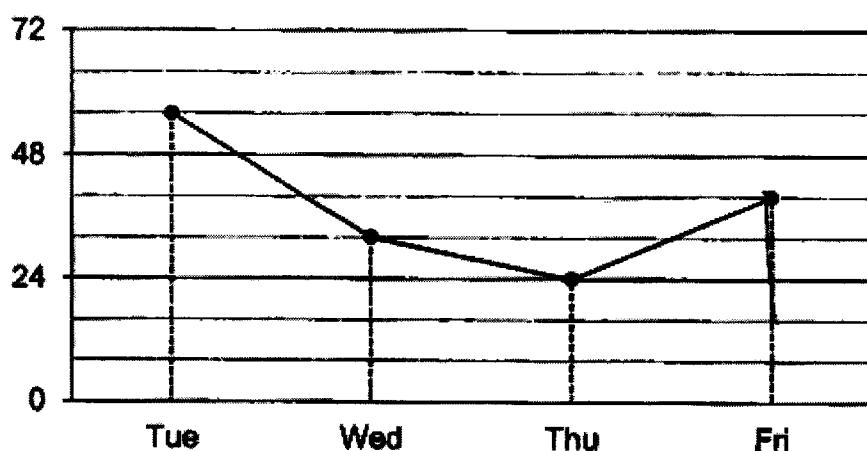
Ans: (a) \_\_\_\_\_ min

- (b) At what time did the musical start?

Ans: (b) \_\_\_\_\_ p.m.

28. The line graph shows the number of text messages Marco received each day from Tuesday to Friday.

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On which day was the number of messages Marco received the closest to the average number of messages he received from Tuesday to Friday?

Ans: \_\_\_\_\_

29. In the morning, Uncle Nong had more toy cars than toy boats at his shop at first. In the afternoon, he sold  $\frac{1}{2}$  of the number of toy cars and 6 toy boats. He did not sell all the toy boats.

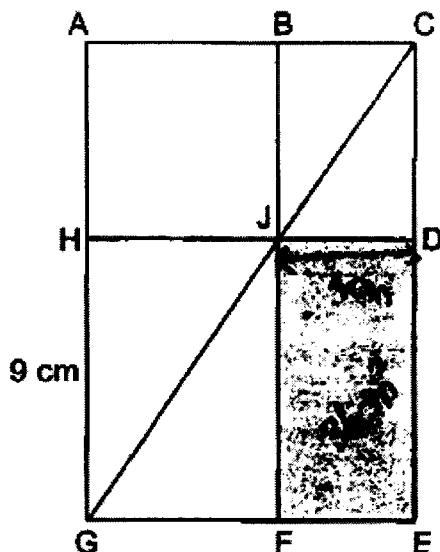
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Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick ( $\checkmark$ ) in the correct column.

Statement	True	False	Not possible to tell
In the morning, Uncle Nong had a total of 13 toy cars and toy boats at first.			
In the afternoon, Uncle Nong had more toy cars than toy boats left.			
The least possible difference between the number of toy cars and toy boats Uncle Nong had left was 5.			

30. In the figure below, ACEG is a rectangle and ABJH is a square. The area of the shaded rectangle JDEF is  $36 \text{ cm}^2$  and the length of HG is 9 cm. Find the length of AC.

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Ans: \_\_\_\_\_ cm

End of Paper



Name: \_\_\_\_\_ ( )

Class: Primary 6 \_\_\_\_\_

**CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)****Primary 6 Mathematics****2023 Preliminary Examination****Paper 2****21 August 2023**

<b>Paper 1</b>	45
<b>Paper 2</b>	55
<b>Total Marks</b>	100

**Parent's/Guardian's Signature****Time : 1 hour 30 minutes****INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet

The use of an approved calculator is expected, where appropriate.

This booklet consists of 18 printed pages.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

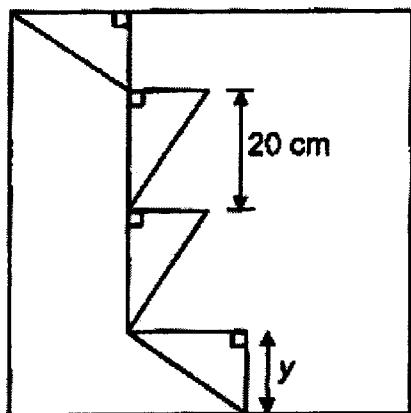
(10 marks)

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1. Adora had 45 magnets at first. She bought some more magnets. Then she shared what she had bought equally between herself and her cousin. In the end, Adora had 69 magnets. How many magnets did Adora buy?

Ans : \_\_\_\_\_

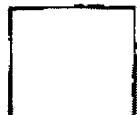
2. The figure shows 4 identical triangles inside a square. The perimeter of the square is 280 cm.



- (a) What is the length of  $y$ ?

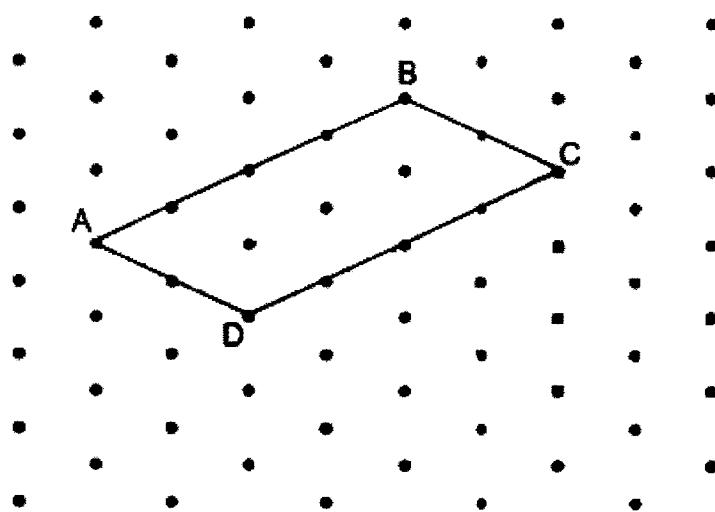
Ans : (a) \_\_\_\_\_ cm

- (b) The 4 triangles are then cut from the square. What is the area of the remaining figure?

Ans : (b) \_\_\_\_\_  $\text{cm}^2$ 

3. The figure below shows a parallelogram ABCD drawn on a grid.

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By joining dots on the grid with straight lines,

(a) draw triangle FCE such that FCE is an acute-angled triangle.

CE is shorter than AB and  $CE = EF$ .

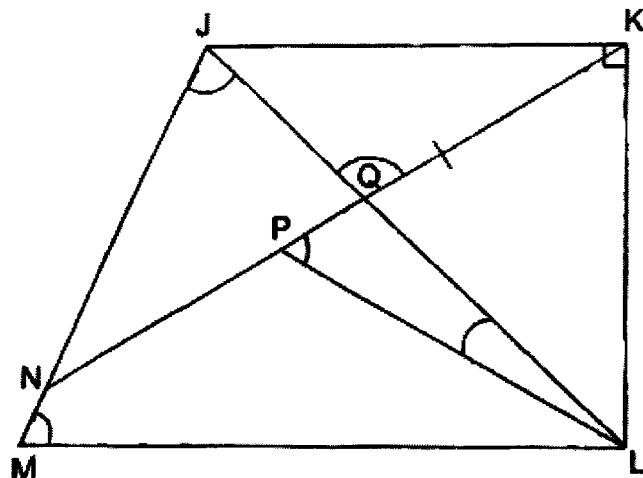
(b) draw rhombus GHJK such that F is the centre of GHJK.

Use a pencil to draw your diagrams and label them clearly.



4. In the figure, KN and JL are straight lines. LPK is an equilateral triangle and  $JK \parallel ML$ . The sum of  $\angle MJL$  and  $\angle LMJ$  is  $138^\circ$ . Find  $\angle QLP$ .

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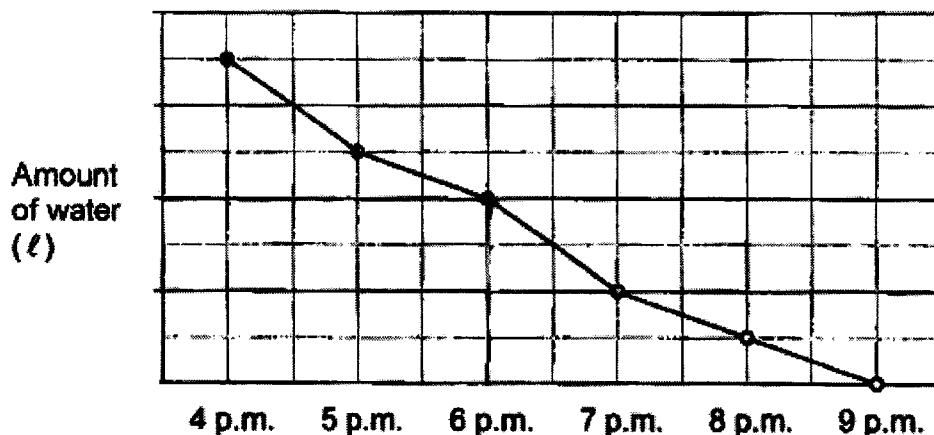


Ans : \_\_\_\_\_ °



5. A tank was  $\frac{1}{3}$  filled with water at 4 p.m. Water flowed out of the tank from 4 p.m. to 9 p.m.. The amount of water that flowed out of the tank is not shown on the scale.

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- (a) From 5 p.m. to 9 p.m.,  $125\ell$  of water flowed out of the tank. What is the capacity of the tank?

Ans : (a) \_\_\_\_\_ cm<sup>3</sup> [1]

- (b) At what time was  $100\ell$  of water left in the tank?

Ans : (b) \_\_\_\_\_ p.m. [1]



For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets ( ) at the end of each question or part-question.

(45 marks)

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6. The table shows the prices of 5 items.

Item	Price (\$)
Cap	4.00
Towel	0.90
Haversack	8.90
Water bottle	17.50
Sleeping bag	16.50

- (a) Of the 5 items, Glynis bought 3 of them and Levivia bought the remaining items. The items each of them bought were different. Glynis spent \$11 more than Levivia. How much money did Glynis spend on the 3 items?

Ans : (a) \_\_\_\_\_ [1]

- (b) What was the cheapest item each of them bought?

Ans : (b) Glynis → \_\_\_\_\_

Levivia → \_\_\_\_\_ [2]



7. At first, there were some children and 132 adults at a party.  $\frac{6}{11}$  of the adults left the party. Then another 14 children joined in the party. In the end, the number of adults who remained at the party was the same as the number of children.

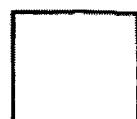
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- (a) How many adults remained at the party?

Ans : (a) \_\_\_\_\_ [1]

- (b) How many people were there at the party at first?

Ans : (b) \_\_\_\_\_ [2]



8. A group of singers are arranged in 5 rows. There are 7 singers in the second row. Each row has  $n$  more singers than the row in front of it.
- (a) How many singers are there in the first row? Leave your answer in terms of  $n$ .

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Ans : (a) \_\_\_\_\_ [1]

- (b) Given that there are 13 singers in the fourth row, find the value of  $n$ .

Ans : (b) \_\_\_\_\_ [1]

- (c) How many singers are there altogether in the 5 rows?

Ans : (c) \_\_\_\_\_ [1]



9. Zhi Cong can type 90 words in every 2 minutes. He tends to type 9 words incorrectly every 10 minutes.
- (a) At this rate, how many words can Zhi Cong type altogether in 2 hours?

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Ans : (a) \_\_\_\_\_ [1]

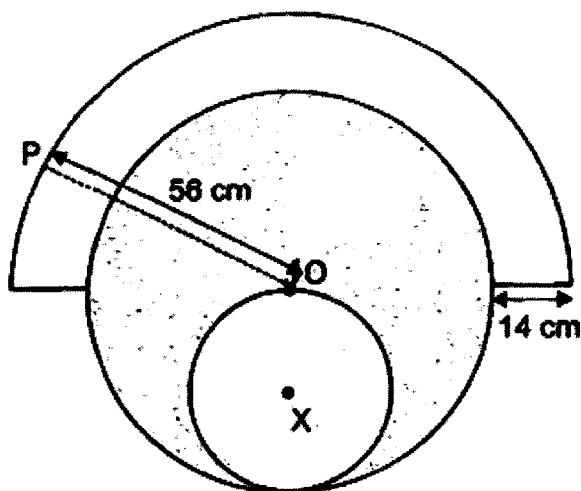
- (b) What is the total number of words he can type correctly in 2 hours?

Ans : (b) \_\_\_\_\_ [2]



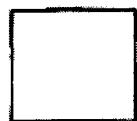
10. The figure is made up of a semicircle, a large circle and a small circle. O is the centre of the semicircle and the large circle. X is the centre of the small circle.  $OP = 56\text{ cm}$ .

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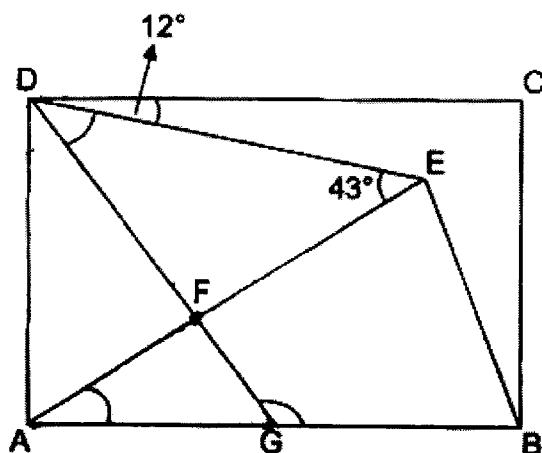
Use the calculator value of  $\pi$  to find the perimeter of the unshaded parts correct to 2 decimal places.

Ans : \_\_\_\_\_ [3]



11. ABCD is a rectangle. AE and DG are straight lines.  $\angle ADF = \angle FDE$ .

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- (a) Find  $\angle FDE$ .

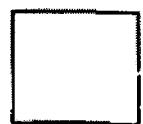
Ans : (a) \_\_\_\_\_ [1]

- (b) Find  $\angle BGD$ .

Ans : (b) \_\_\_\_\_ [1]

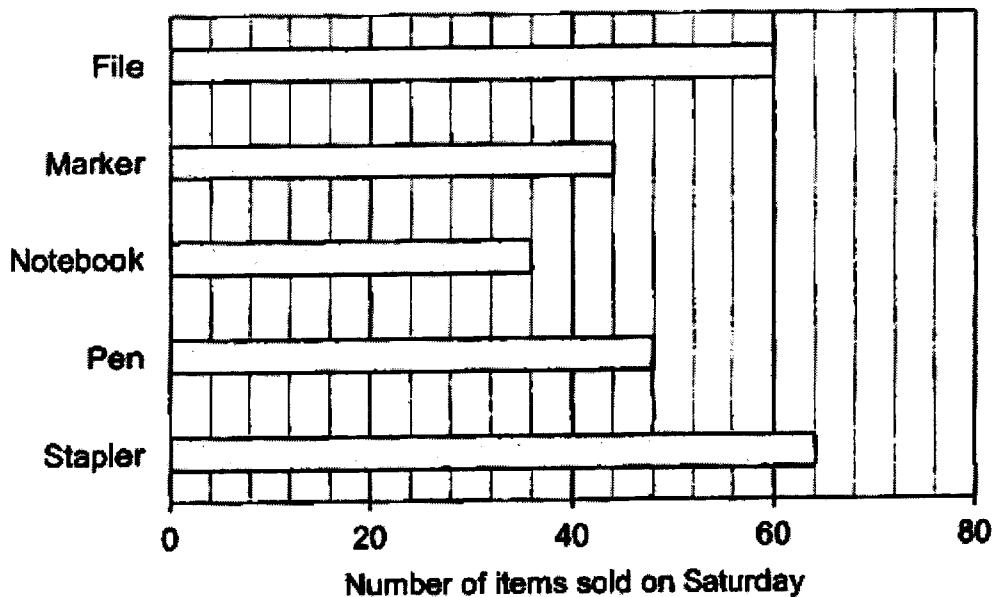
- (c) Find  $\angle FAG$ .

Ans : (c) \_\_\_\_\_ [1]



12. On Saturday, Mr Zusin sold five different types of items. He prepared 66 of each item at the start of Saturday. He sold every item at the same price. The bar graph shows the number of items sold on Saturday.

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- (a) Which item had the most number left unsold at the end of Saturday?

Ans : (a) \_\_\_\_\_ [1]

- (b) On Saturday, Mr Zusin sold the pens at \$1.95 each. How much money did he collect?

Ans : (b) \_\_\_\_\_ [1]

- (c) On Sunday, Mr Zusin continued to sell the remaining unsold items from Saturday at any 3 for \$5. He sold all the items. How much money did he collect on Sunday?

Ans : (c) \_\_\_\_\_ [2]



13. The admission tickets for children to watch a magic show were fixed on all days of a week. On Thursday, there were 80 boys and 60 girls at the show. On Friday, the number of boys increased by 30% and the number of girls decreased by 15%. Altogether, \$9440 was collected from the sale of admission tickets over the two days.

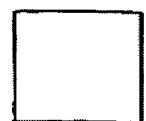
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(a) What was the price of each admission ticket?

Ans : (a) \_\_\_\_\_ [2]

(b) What was the percentage increase in the number of tickets sold from Thursday to Friday?

Ans : (b) \_\_\_\_\_ [2]



14. In 2020, the ratio of the number of men to the number of women in Happy Factory was 2 : 1. The ratio of the number of men to the number of women in Cheery Factory was 7 : 13. The total number of people in Happy Factory was 90% of the total number of people in Cheery Factory.

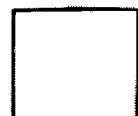
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- (a) What was the ratio of the number of men in Happy Factory to the number of men in Cheery Factory in 2020?

Ans : (a) \_\_\_\_\_ [2]

- (b) In 2021, 8 men left Happy Factory to join Cheery Factory. Then the ratio of the number of men to the number of women in Cheery Factory became 3 : 5. What was the total number of men and women in Cheery Factory in 2020?

Ans : (b) \_\_\_\_\_ [2]



15. Omar spent \$162 more than  $\frac{1}{7}$  of his monthly salary on transport. He spent \$40 less than  $\frac{1}{6}$  of his remaining salary on groceries. He spent \$968 on groceries.

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He saved the rest of his salary.

- (a) How much of his monthly salary did Omar save?

Ans : (a) \_\_\_\_\_ [2]

- (b) What was Omar's monthly salary?

Ans : (b) \_\_\_\_\_ [2]

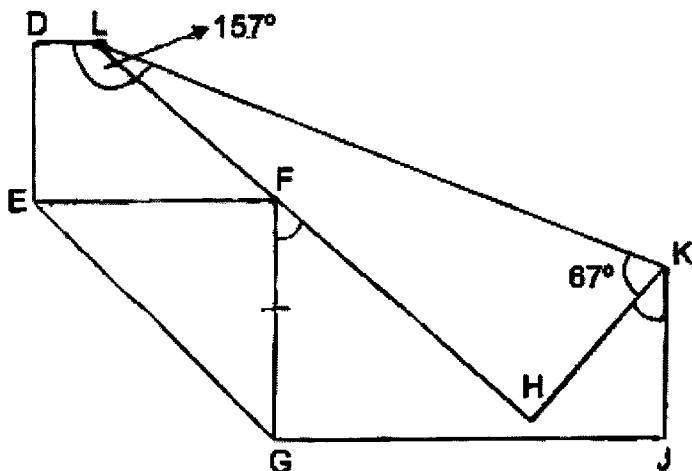
- (c) Find Omar's total salary in  $1\frac{1}{4}$  years.

Ans : (c) \_\_\_\_\_ [1]



16. A rectangular piece of paper was folded at two of its corners F and H as shown.

Do not  
write  
in this  
space



- (a) Find  $\angle HKJ$ .

Ans : (a) \_\_\_\_\_ [2]

- (b) Find  $\angle DLF$ .

Ans : (b) \_\_\_\_\_ [1]

- (c) Find  $\angle GFH$ .

Ans : (c) \_\_\_\_\_ [1]

- (d) Circle the words that describe DEFL correctly in the following statement :

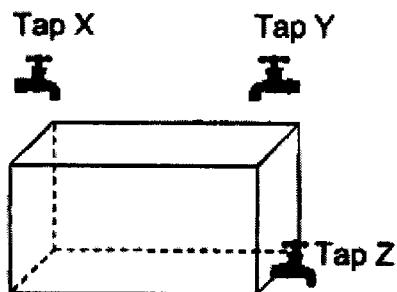
**DEFL ( Is / is not ) a trapezium because DL ( is / is not ) parallel to EF.**

[1]



17. An empty rectangular tank with a base area of  $1250 \text{ cm}^2$  was to be filled with water from 2 taps, X and Y. Tap X filled the tank with water at  $2.7 \ell$  per minute while tap Y filled it with water at  $1.5 \ell$  per minute. Tap Z drained water out of the tank at  $1.8 \ell$  per minute.

Do not  
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in this  
space



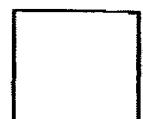
- (a) At 12.41 p.m., all 3 taps were turned on. How much water was there in the tank at 12.47 p.m.? Leave your answer in  $\ell$  and ml.

Ans : (a) \_\_\_\_\_ [1]

- (b) At 12.47 p.m., only tap X was turned off. At 12.55 p.m.,  $\frac{1}{3}$  of the tank was filled with water. What is the height of the tank?

Ans : (b) \_\_\_\_\_ [2]

(Go on to the next page)



(c) At 12.55 p.m., tap Z was also turned off. After some time, tap Y was turned off.  $\frac{3}{4}$  of the tank was filled with water. At what time was tap Y turned off? Leave your answer in the 24-hour clock.

Do not  
write  
in this  
space

Ans : (c) \_\_\_\_\_ [2]

**End of Paper**



**SCHOOL : CHIJ SCHOOL  
 LEVEL : PRIMARY 6  
 SUBJECT : MATH  
 TERM : 2022 PRELIM**

**PAPER 1 BOOKLET A**

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	4	2	1	2	4	3	2	4

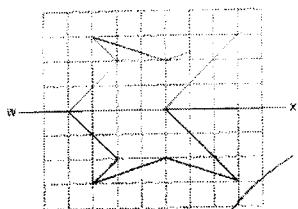
Q 11	Q12	Q13	Q14	Q15
2	2	1	1	4

**PAPER 1 BOOKLET B**

Q16) $0.43\text{m}$
Q17) $2\frac{7}{8}$
Q18) $15 \div 60 = 2.5$ $2.5 \times 100 = 250$
Q19) $11.4 - 0.9 = 10.9 \text{ cm}$
Q20) $118 + 97 = 215$ $276 - 34 - 215 = 27$ $27 - 11 = 16$ $19 - 16 = 3$
Q21) $28 \times 4 = 112$ $112 - 28 - 22 - 20 = 42$
Q22) 1 bowl $\rightarrow \$r$ 1 pot $\rightarrow \$14r$ $7r + 14r = 21r$ $\$(21r + 30)$

Q23)  $\angle SQP = (180 - 27) \div 2 = 76.5^\circ$   
 $\angle RQS = 76.5 - 44 = 32.5^\circ$

Q24)



Q25)  $4 + 2 = 6$   
 $16 + 2 = 18$   
**Ans : 6 and 18**

Q26)  $0.4 \times 1000 = 400$  (1 round)  
 $400 \times 5 = 2000$   
 $2000 \div 10 = 200$  m/min

Q27) a)  $\frac{1}{5} \times 60 = 12$  min  
b) 1.25 p.m.

Q28)  $56 + 40 + 32 + 24 = 152$   
 $152 \div 4 = 38$   
**40 is nearer to 38 and 40 is on Friday**

Q29) False  
Not possible tell  
False

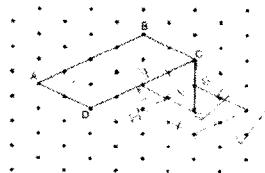
Q30)  $36 = 6 \times 6$   
 $6 + 4 = 10$  cm

## PAPER 2

Q1)  $69 - 45 = 24$   
 $24 \times 2 = 48$

Q2) a)  $280 \div 4 = 70$   
 $(70 - 20 - 20) \div 2 = 15$  cm  
b)  $70 \times 70 = 4900$   
 $(20 \times 15 \times \frac{1}{2}) \times 4 = 600$   
 $4900 - 600 = 4300$  cm<sup>2</sup>

Q3)



Q4)

$$\begin{aligned}180 \div 3 &= 60 \\<\text{KJQ} &= 180 - 138 = 42 \\<\text{JKQ} &= 90 - 60 = 30 \\<\text{JQK} &= 180 - 42 - 30 = 108 \\<\text{NQL} &= <\text{JQK} = 108 \\<\text{QLP} &= 180 - 108 - 60 = 12^\circ\end{aligned}$$

Q5)

$$\begin{aligned}\text{a)} 125 \div 5 &= 25 \\(25 \times 7) \times 3 &= 525 \\525L &= 525000 \text{cm}^3 \\ \text{b)} 125 - 100 &= 25 \\25 \div 25 &= 1 \\5 - 1 &= 4 \\ \text{Ans : } 6 &\text{ p.m.}\end{aligned}$$

Q6)

a) \$29.40  
 b) Glynis : cap  
 Levivia : Towel

Q7)

$$\begin{aligned}\text{a) } 1 - \frac{6}{11} &= \frac{5}{11} (\text{ left at the party}) \\132 \times \frac{5}{11} &= 60 \\ \text{b) } 60 - 14 &= 46 \\46 + 132 &= 178\end{aligned}$$

Q8)

$$\begin{aligned}\text{a) } (7 - n) \\ \text{b) } 13 - 7 &= 6 \\ 6 \div 2 &= 3 \\ \text{c) } 10 \times 3 &= 30 \\ 7 - 3 &= 4 \\ 4 \times 5 &= 20 \\ 20 + 30 &= 50\end{aligned}$$

Q9)

$$\begin{aligned}\text{a) } (120 \div 2) \times 90 &= 5400 \\ \text{b) } 5 \times 90 &= 450 \\ 450 - 9 &= 441 \\ (120 \div 10) \times 441 &= 5292\end{aligned}$$

Q10)	<b>467.82 cm</b>
Q11)	a) $39^\circ$ b) $129^\circ$ c) $31^\circ$
Q12)	a) Notebook b) \$93.60 c) \$130
Q13)	a) $80 + 60 + 104 + 51 = 295$ $9440 \div 295 = \$32$  b) $80 + 60 = 140$ $104 + 51 = 155$ $155 - 140 = 15$ $\frac{15}{140} \times 100 = 10\frac{5}{7}\%$
Q14)	a)12: 7 b)200
Q15)	a) $968 + 40 = 1008$ 1 unit = 1008 $(1008) + 40 = \$5080$  b) $(1008 \times 6) + 162 = 6210$ $(6210 \div 6) \times 7 = \$7245$  c)\$108675
Q16)	a) $\angle HKJ = 180 - 67 - 67 = 46$ $\angle HKJ = 46^\circ$  b) $\angle GFH = 44^\circ$
Q17)	a) $(2.7 + 1.5) - 1.8 = 2.4$ $2.4 \times 6 = 14.4$ $14.4L = 14L 400ml$  b) $1.8 - 1.5 = 0.3$ $14.4L = 14400ml$ $0.3 = 300ml$ $14400 - (300 \times 8) = 12000$ $(12000 \times 3) \div 1250 = 28.8 \text{ cm}$