NAN HUA PRIMARY SCHOOL
NON-WEIGHTED ASSESSMENT 2 2023
PRIMARY 6

MATHEMATICS
PAPER 1
(BOOKLET A)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
6. The use of calculators is **NOT** allowed.

Name : _____

Form Class : 6____( ) **Teaching Group : 6M____( )**

Date : 12 May 2023 **Parent's Signature :** _____

This booklet consists of 7 printed pages and 1 blank page.

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) and shade your answer on the Optical Answer Sheet. (20 marks)

---

1 What is the value of $\frac{1}{10} + \frac{5}{100} + \frac{6}{1000}$?

(1) 0.15

(2) 0.16

(3) 0.012

(4) 0.156

2 Which one of the following is likely to be the height of a flag pole?

(1) 0.07 m

(2) 0.70 m

(3) 7 m

(4) 70 m

3 What is the value of 600 + 3000 ?

(1) 0.02

(2) 0.2

(3) 0.5

(4) 5.0

4 Find the value of $8 \div \frac{2}{3}$.

(1) 24

(2) 16

(3) 12

(4) 4

5 Meili had only the following coins in her wallet.

She took three coins from her wallet and dropped them into a donation box. Which one of the following could be the amount she donated?

(1) \$0.35

(2) \$0.85

(3) \$1.20

(4) \$1.80

6 Which one of the following fractions is the greatest?

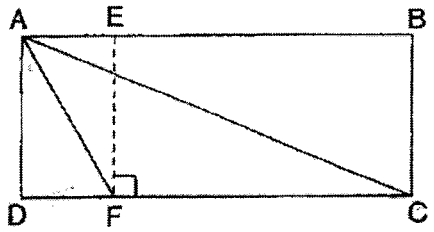
(1) $\frac{1}{2}$

(2) $\frac{2}{3}$

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

(4) $\frac{3}{10}$

7 Given that the height of triangle ACF is AD, find the base that is related to the height AD.



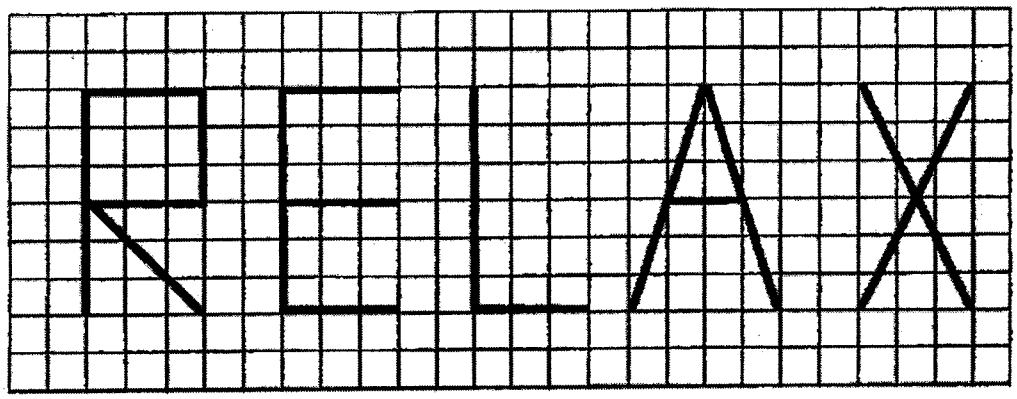
(1) CD

(2) CF

(3) DF

(4) EF

8 In the diagram below, the letters R, E, L, A and X are drawn on a square grid.



Which of the letters above have only 1 line of symmetry?

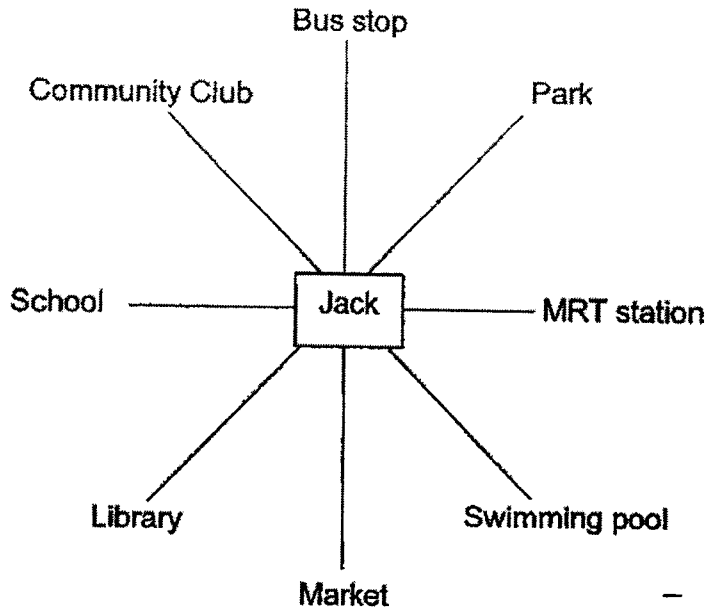
(1) A and E

(2) A and X

(3) E and R

(4) L and X

9 The figure shows the position of Jack and some facilities in his neighbourhood.



Jack is facing the swimming pool. Where would he be facing if he made a 135° anti-clockwise turn?

(1) MRT station

(2) Market

(3) Bus stop

(4) School

10 At a party, the number of boys is $\frac{2}{7}$ the number of girls. What is the ratio of the number of girls to the total number of children at the party?

(1) 2 : 7

(2) 7 : 5

(3) 2 : 9

(4) 7 : 9

11 Cheryl baked a cake and gave $\frac{1}{4}$ of it to her neighbour. She cut the remaining cake equally into 9 slices. What fraction of the whole cake was each slice of the cake?

(1) $\frac{3}{4}$

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

(3) $\frac{1}{3}$

(4) $\frac{1}{12}$

12 In the table below, Mdm Lee recorded the number of books her students read in a week.

No. of books read	0	1	2	3	4
No. of students	3	16	10	18	3

How many students read at least 2 books?

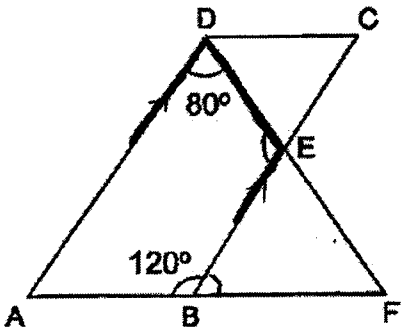
(1) 10

(2) 21

(3) 28

(4) 31

13 ABCD is a parallelogram. ABF, BEC and DEF are straight lines.
Find ∠DEB.



(1) 40°

(2) 60°

(3) 80°

(4) 100°

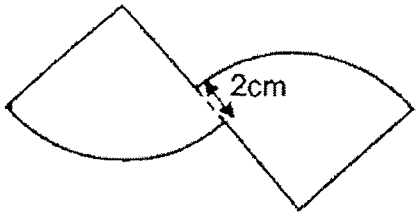
14 The figure is formed by joining two quarter circles of radius 6 cm. Find the perimeter of the figure. Round your answer to the nearest whole number. Take $\pi = 3.14$

(1) 37 cm

(2) 39 cm

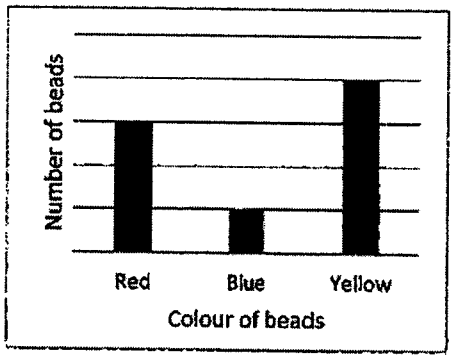
(3) 41 cm

(4) 43 cm

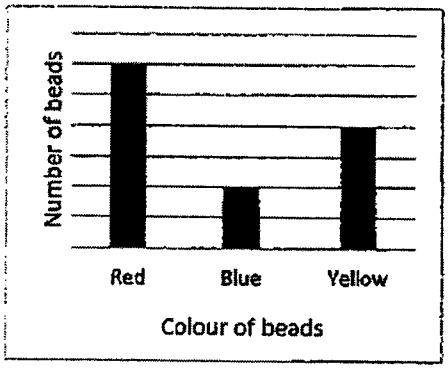


15 The ratio of the number of red beads to the number of blue beads is 3 : 2. The ratio of the number of red beads to the number of yellow beads is 1 : 2. Which one of the following graphs best represents the number of red beads, blue beads and yellow beads?

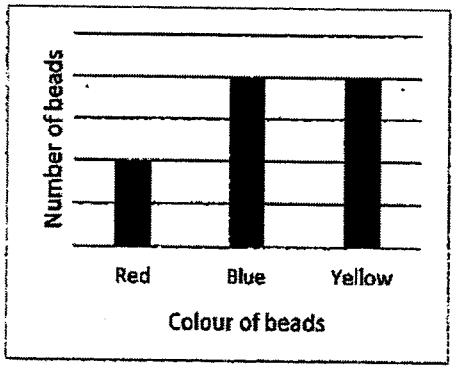
(1)



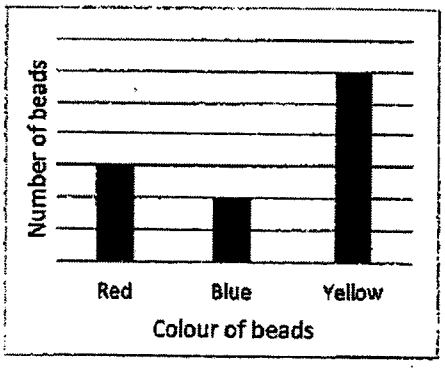
(2)



(3)



(4)



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8

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NAN HUA PRIMARY SCHOOL
NON-WEIGHTED ASSESSMENT 2 2023
PRIMARY 6

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
6. Do not use correction fluid/tape or highlighters.
7. The use of calculators is **NOT** allowed.

Marks Obtained

Paper 1	**Booklet A**		**/ 45**
	Booklet B		
Paper 2			**/ 55**
Total			**/ 100**

Name : _____

Form Class : 6____ ( ) **Teaching Group : 6M _____ ( )**

Date : 12 May 2023 **Parent's Signature :** _____

This booklet consists of 8 printed pages

Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

Do not write in this space

16 Find the value of $75 + 3 \times 5 \div (21 - 18)$

Ans : _____

17 Round 69 754 to the nearest hundred.

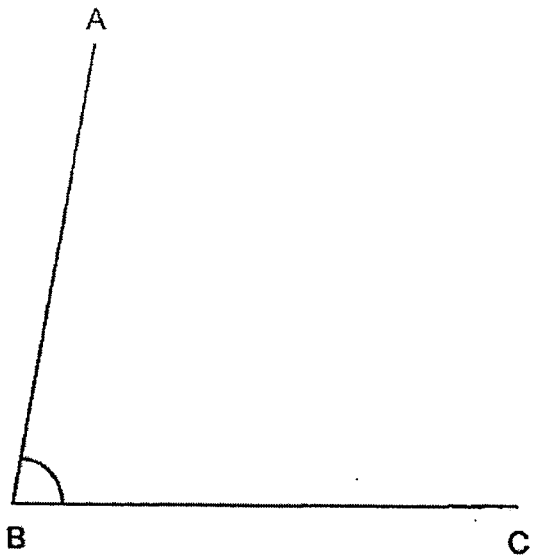
Ans : _____

18 Express $2\frac{5}{8}$ as a decimal.

Ans : _____

19 Measure and write down the size of ∠ABC.

Do not write in this space



Ans : _____ °

20 Each day, Miss Wong starts work at 21 30 and finishes at 05 15 the next day. How long does she work each day? Express your answer in hours and minutes.

Ans : _____h_____min

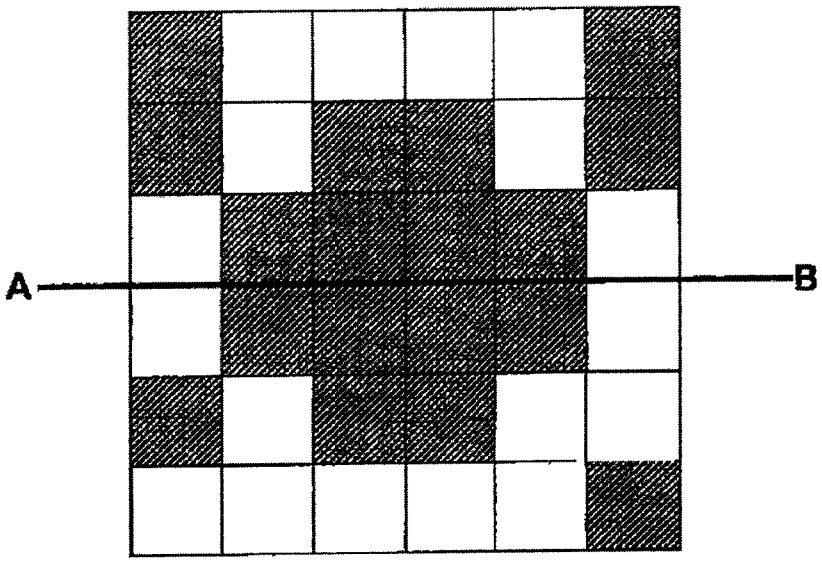
(Go on to the next page)

Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For question which require units, give your answers in the units stated. (20 marks)

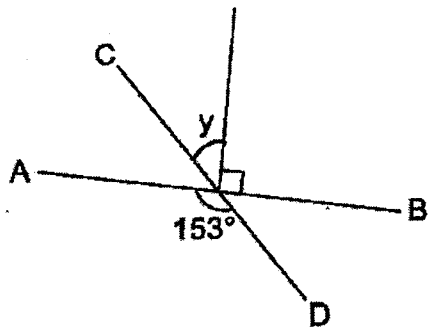
Do not write in this space

21 The figure below are made up of similar squares.

Shade two more squares so that the figure is symmetrical along line AB.



22 Look at the figure below. AB and CD are straight lines. Find $\angle y$.



Ans : _____ °

23 The ratio of the number of Jane's stickers to the number of Sally's stickers is 3 : 4. Lisa has $\frac{3}{5}$ as many stickers as Sally. Find the ratio of the number of Jane's stickers to the number of Sally's stickers to the number of Lisa's stickers.

Do not write in this space

Ans : _____

24 Mr Tan has $\frac{7}{8}$ kg of coffee powder. He packs the coffee powder into packets of $\frac{1}{4}$ kg each.

(a) How many $\frac{1}{4}$ - kg packets does he get?

Ans: (a) _____

(b) What is the mass of the remaining coffee powder? Give your answer as a fraction in the simplest form.

Ans: (b) _____kg

(Go on to the next page)

25 What is the percentage discount for the tennis racket below?

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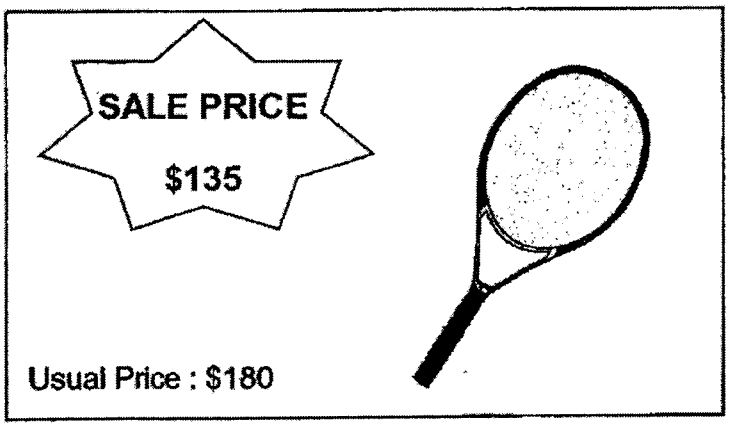
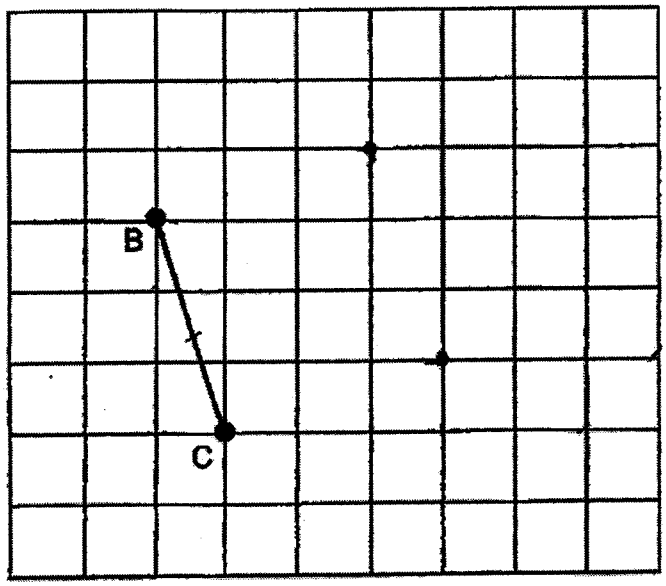


Ans : _____%

26 Using the line BC, draw square ABCD on the square grid.



27 The cuboid below has a square base of side 5 cm and a height of 24 cm. Find the volume of the cuboid.

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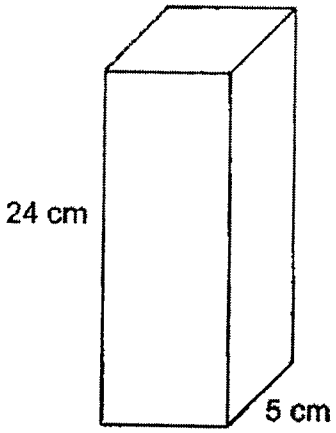
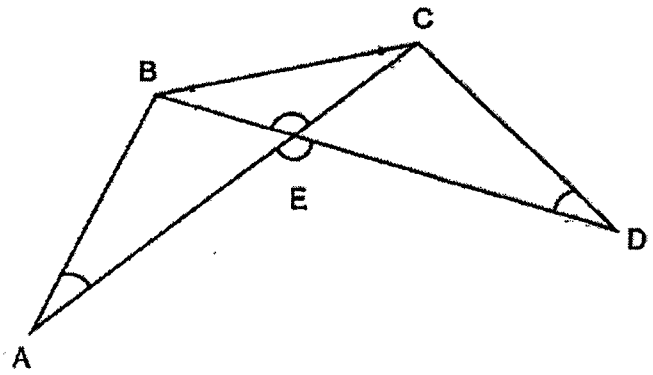


Ans : _____ cm^3

28 In the figure below, AEC and BED are straight lines. AB = BC = CD.



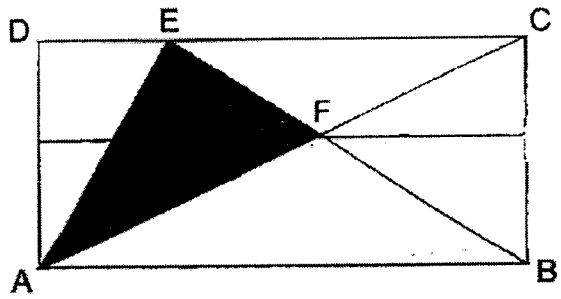
Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick(✓) to indicate your answer.

	Statement	True	False	Not possible to Tell
(a)	$\angle BEC = \angle AED$			
(b)	$\angle BAC = \angle CDB$			

(Go on to the next page)

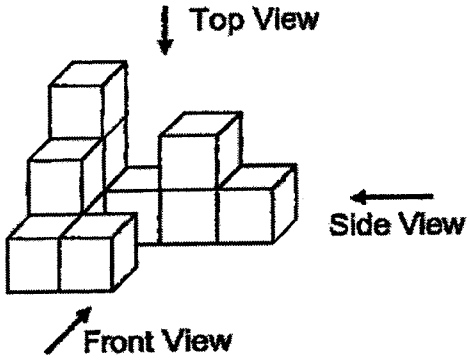
29 In the figure below, the area of rectangle ABCD is 160 cm^2. The area of triangle AFB is 48 cm^2. Find the area of the shaded portion.

Do not write In this space

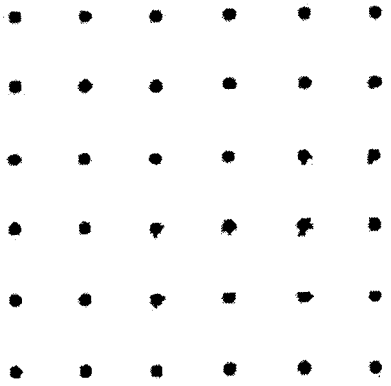


Ans : _____ cm^2

30 The solid below is made up of 11 identical unit cubes. Draw the side view on the grid below.



Side View



End of Paper

NAN HUA PRIMARY SCHOOL
NON-WEIGHTED ASSESSMENT 2 2023
PRIMARY 6

MATHEMATICS
Paper 2

Total Time for Paper 2: 1 hour 30 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
6. Do not use correction fluid/tape or highlighters.
7. The use of an approved calculator is allowed.

Marks Obtained

Total	Max Mark
	55

Name : _____

Form Class : 6____( ) **Teaching Group : 6M _____( )**

Date : 12 May 2023 **Parent's Signature :** _____

This booklet consists of 16 printed pages

Questions **1** to **5** carry 2 marks each. Show your workings clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

1 The table shows the results of 4 runners in a 4 x 100m relay.

Find the average time taken by the runners.

Name	Timing
Andy	10 s
Benjamin	15 s
Charlie	13 s
Daniel	12 s

Ans: _____ s

2 The ratio of the number of apples to the number of pears at a fruit stall was 9 : 4. The fruit seller sold $\frac{2}{3}$ of the apples and $\frac{3}{4}$ of the pears. What was the ratio of the number of apples left to the number of pears left?

Ans: _____

3 The table below shows the parking charges at ABC car park.

Do not write in this space

Parking charges at ABC Car Park	Amount
First hour	$1.80
Every additional half an hour	$0.60

Mr Tan parked his car for 9 hours at ABC car park. How much did he pay?

Ans: $_____

4 Miss Tan started a fixed deposit account with $30 000 in a bank. The interest rate is 4% per year. How much would she have in her account at the end of one year?

Ans: $_____

5 Cheryl spilled some ink on her Mathematics quizzes results slip as shown below.

Topic	Score
Fractions	88
Percentage	6[illegible]
Ratio	[illegible]2
Circles	75
Total score	318

What is the difference between Cheryl's score for her Percentage quiz and her Ratio quiz?

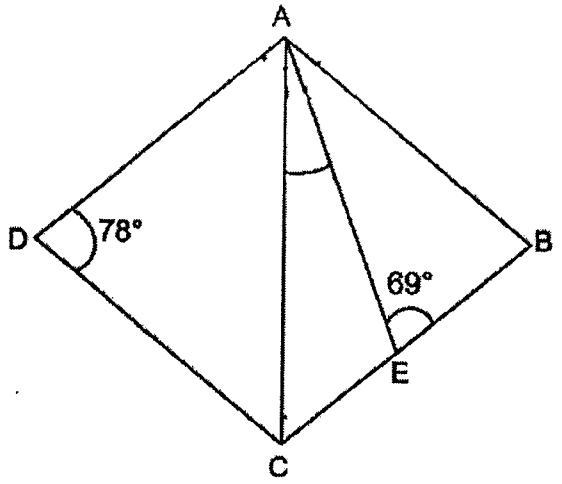
Do not write in this space

Ans: _____

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 brackets [ ] at the end of each question or part-question. (45 marks)

Do not write in this space

6 In the figure below, ABCD is a rhombus. Find ∠CAE.



Ans: _____ [3]

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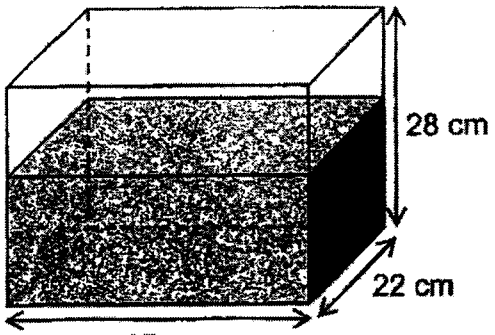
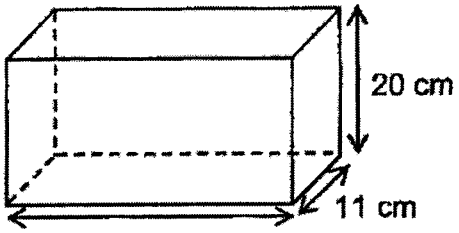
7 Container A measuring 45 cm by 22 cm by 28 cm was $\frac{4}{7}$ filled with water.

The water was then poured into another empty container, Container B, until it was filled to the brim. What was the volume of water left in Container A? Give your answer in litres.



Container A

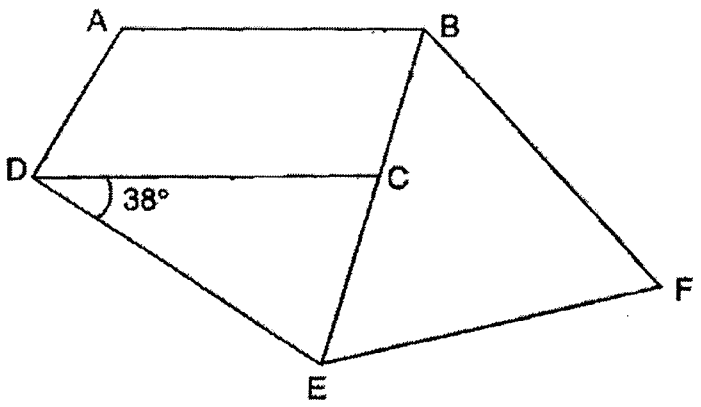


Container B

Ans: _____ [3]

8 In the figure below, ABCD is a trapezium where AB is parallel to CD. CDE is an isosceles triangle where DE = DC. BEF is an equilateral triangle. Find ∠ABF.

Do not write in this space

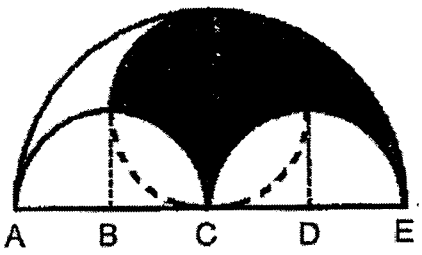


Ans: _____ [3]

(Go on to the next page)

9 The figure shows three semicircles and a circle.

Given AB = BC = CD = DE = 5 cm, find the perimeter of the shaded part. Leave your answer in terms of π.



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Ans: _____ [3]

10 A rectangular tank contained some water at first. A tap was then turned on to fill the tank completely with water. It was turned off at the end of 90 minutes. The graph below shows the amount of water in the tank at the end of 90 minutes.

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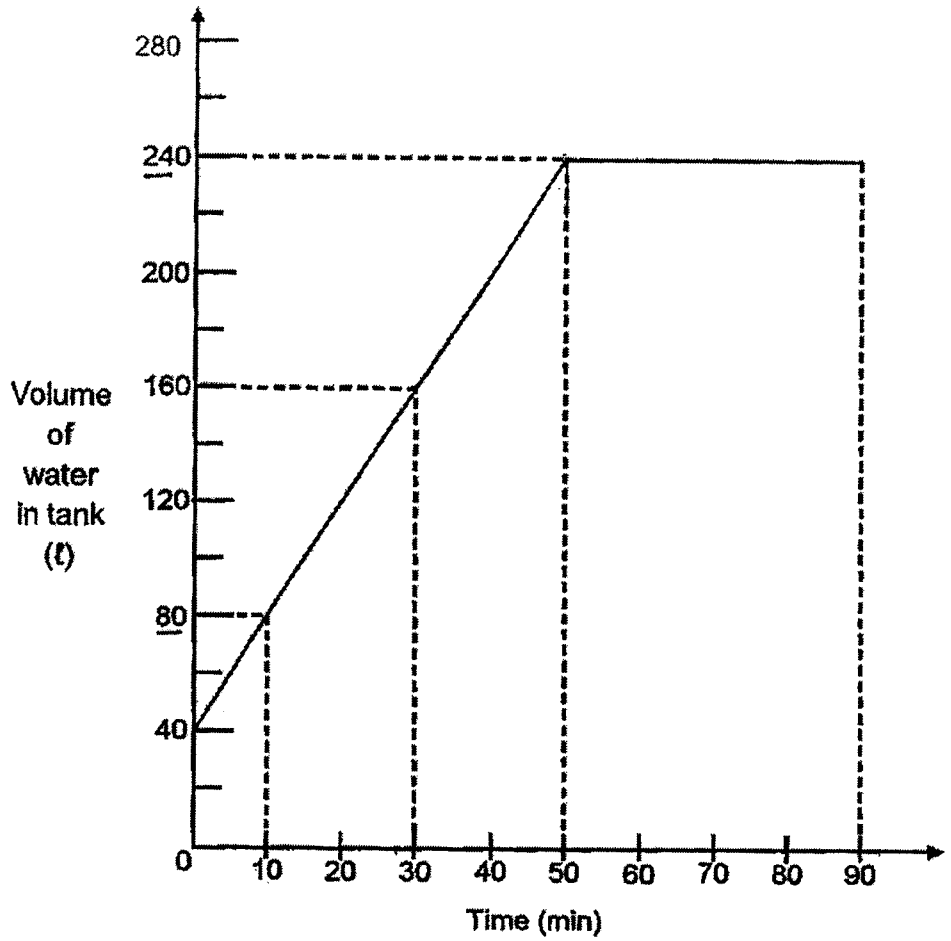


(a) How much water flowed from the tap into the tank in 1 minute?

Ans: (a) _____ [1]

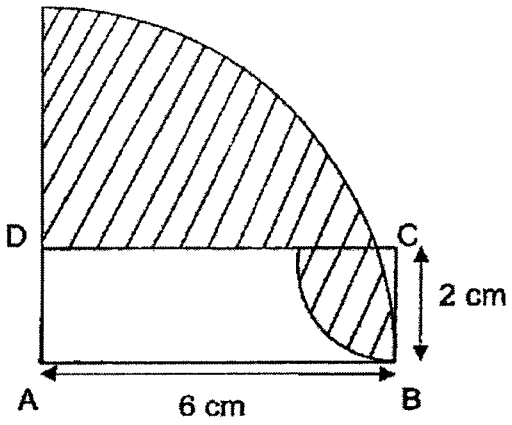
(b) How many litres of water overflowed from the tank at the end of 90 minutes?

Ans: (b) _____ [2]

11 The figure below is made up of 2 quarter circles and a rectangle ABCD. AB = 6 cm and BC = 2 cm. What is the area of the shaded part?

(Take $\pi = 3.14$)

Do not write in this space



Ans: _____ [4]

12 In Country X, the height of six 10-cent coins is the same as that of five 20-cent coins as shown in diagram 1. Diagram 2 shows an unknown number of such 10-cent coins stacked to the same height as another stack of such 20-cent coins.

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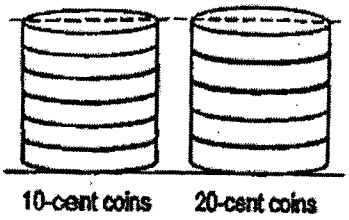

Diagram 1

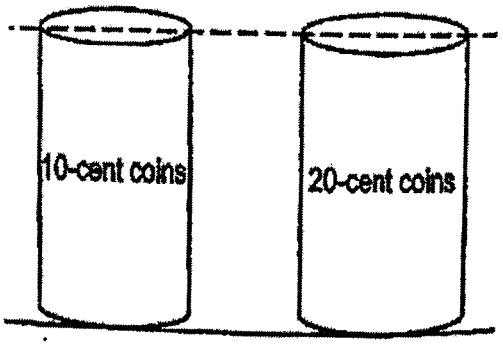

Diagram 2

If the total value of the 2 stacks of coins in diagram 2 is $8,

(a) find the number of 10-cent coins used in diagram 2.

Ans: (a) _____ [3]

(b) find the value of all the 20-cent coins used in diagram 2.

Ans: (b) _____ [1]

13 A rectangular piece of paper has been folded from the two lower corners as shown below. The two corners meet at P.

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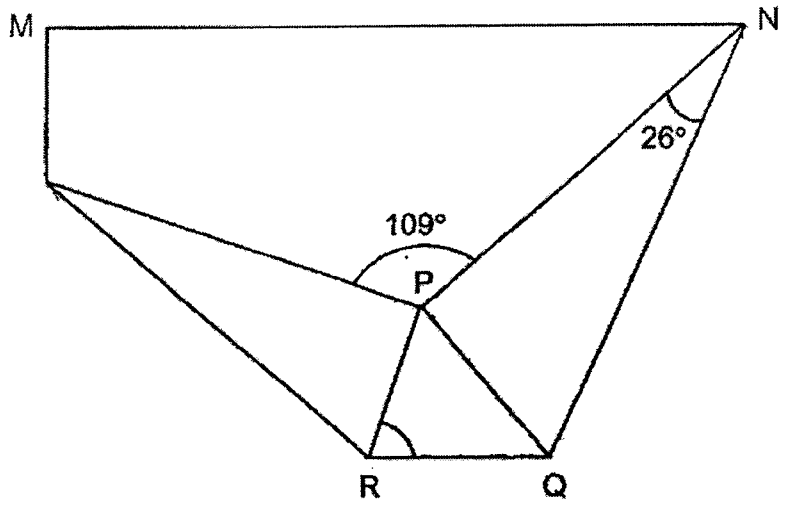

(a) Find ∠RPQ.

Ans: (a) _____ [2]

(b) Find ∠PRQ.

Ans: (b) _____ [2]

14 Mrs Goh had some money. She used \$53 to pay for 4 identical large potted plants and 7 identical small potted plants.

Do not write in this space

If she bought another large potted plant, she would be short of \$3.50.

If she bought another small potted plant, she would have \$1.50 left.

(a) What is the difference in price between the large and the small potted plant?

Ans: (a) _____ [1]

(b) Find the price of one large potted plant.

Ans: (b) _____ [3]

15 Meiling gave $\frac{5}{7}$ of her stamps and an additional 4 to her brother.

She then gave $\frac{1}{2}$ of the remaining stamps and an additional 5 to her cousin. She was left with 38 stamps.

How many stamps did Meiling give her brother?

Do not write in this space

Ans: _____ [4]

16 40 workers donated money to charity. 60% of them were male workers. Each male worker donated \$20 and each female worker donated \$4 more than each male worker.

Do not write in this space

(a) How much money did the female workers donate altogether?

Ans: (a) _____ [2]

(b) On the average, how much did each worker donate?

Answer: _____ [3]

17 The graph below shows the number of people at a book fair from Monday to Friday.

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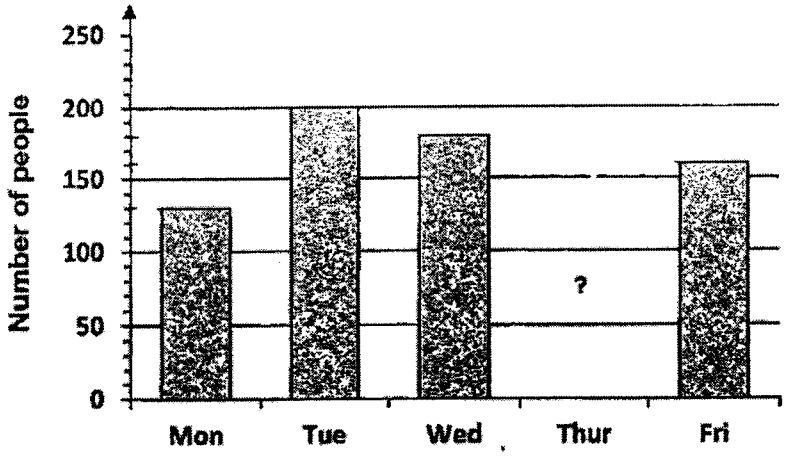


(a) The average number of people who visited the book fair from Monday to Friday was 174. How many people were at the book fair on Thursday?

Ans: (a)_____ [2]

(b) The average number of people who visited the book fair on Saturday and Sunday was 206. 20 more people visited on Saturday than on Sunday. What was the percentage increase in the number of visitors from Friday to Saturday?

Ans: (b)_____ [3]

End of Paper

SCHOOL : NAN HUA SCHOOL
LEVEL : PRIMARY 6
SUBJECT : MATH
TERM : WA2 2023

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	2	3	1	2	2	1	3	4

Q11	Q12	Q13	Q14	Q15
4	4	4	2	4

Q16) **80**

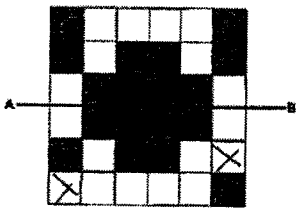
Q17) **69800**

Q18) **2.625**

Q19) **80°**

Q20) **7h 45min**

Q21)



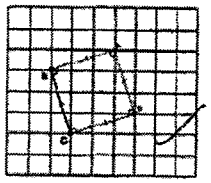
Q22) **153 – 90 = 63°**

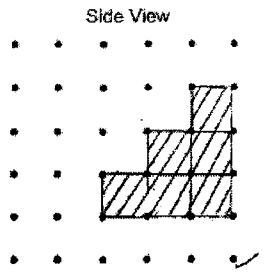
Q23) **15 : 20 : 12**

Q24) **a)3**
b)1/8 kg

Q25) **25%**

Q26)



Q27)	**600 cm3**
Q28)	**a) True** **b) Not possible to Tell**
Q29)	**32 cm2**
Q30)	

PAPER 2

Q1)	**10 + 15 + 13 + 12 = 50** **50 ÷ 4 = 12.5**
Q2)	**3 : 1**
Q3)	**9 -1 = 8** **8 ÷ 0.5 = 16** **16 X $0.60 = $9.60** **$9.60 + $1.80 = $11.40**
Q4)	**$30000 X 104% = $31200**
Q5)	**29**
Q6)	**180 – 69 = 111°** **(360 – 78 – 78) ÷ 2 = 102°** **102 ÷ 2 = 51°** **180 – 51 – 111 = 18°**
Q7)	**45 X 22 X 28 = 27720** **27720 X 4/7 = 15840** **42 X 11 X 20 = 9240** **15840 – 9240 = 6600** **6600ML = 6.6L**
Q8)	**180 – 38 = 142°** **142 ÷ 2 = 71°** **180 – 71 = 109°** **(360 – 109 – 109) ÷ 2 = 71°** **71 + 60 = 131°**

Q9) ¼ x 2 x π x 5 = 2.5π
¼ x 2 x π x 10 = 5π
2.5π x 4 = 10π
10π + 5π = 15π cm

Q10) a)4L
b)90 min – 50min = 40 min
40 x 4 = 160L

Q11) ¼ x 3.14 x 6 x 6 = 28.26

¼ x 3.14 x 2 x 2 = 3.14

6 x 2 = 12

(28.26 + 3.14) – 12 = 19.4 cm2

Q12) a)10c x 6 = 60c
20c x 5 = $1
$1 + 60c = $1.60
$8 ÷ $1.60 = 5
5 x 6 = 30

b)5 x 5 = 25
25 x 20c = $5

Q13) a)360 – 109 – 90 – 90 = 71°
b)180 – 26 – 90 = 64°
180 – 64 – 64 = 52°
180 – 71 – 52 = 57°

Q14) a)$3.50 + $1.50 = $5
b)7s + 4L = $53
7s + 4 (1s +5) = 53
7s + 4s + 20 = 53
11s = 33
S = 3
3 x 7 = 21
53 – 21 = 32
32 ÷ 4 = $8

Q15)	1u – 2 – 5 = 38 1u – 7 = 38 1u = 45 5u = 225 225 + 4 = 229
Q16)	a)60% x 40 = 24 40 – 24 = 16 $20 + 4 = $24 16 x $24 = $384 b)$20 x 24 = $480 $480 + $384 = $864 $864 ÷ 40 = $21.60
Q17)	a)174 x 5 = 870 870 – 130 – 200 – 180 – 160 = 200 b)206 x 2 = 412 (412 – 20) ÷ 2 = 196 196 + 20 = 216 216 – 160 = 56 56/100 = 7/20 = 35/100 = 35%