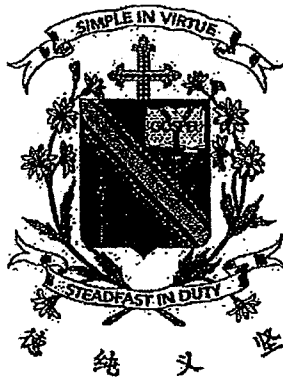


Name : _____ ()

Class: _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2018 Semestral Assessment Two

Paper 1

Booklet A

23 October 2018

**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.

Shade your answers in the optical answer sheet (OAS) provided.

The use of calculators is **NOT** allowed.

This booklet consists of 9 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, 4) on the Optical Answer Sheet (OAS).

(20 marks)

1. Which one of the following numbers has the digit 2 in the hundred thousands place?

(1) 2 430 587

(2) 2 340 587

(3) 3 240 587

(4) 3 420 587

2. In $\frac{1}{12} + \frac{2}{12} + \frac{7}{12} = \boxed{?} \times \frac{1}{12}$, what is the missing number in the box?

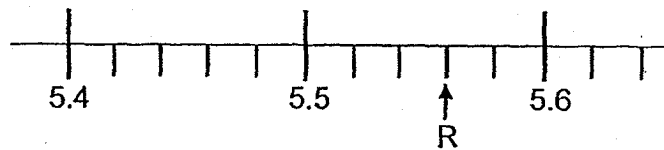
(1) 9

(2) 10

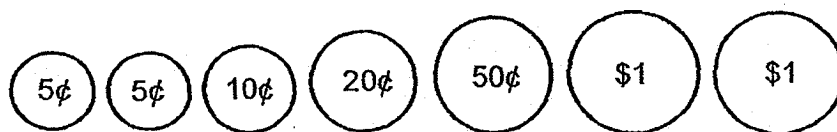
(3) 29

(4) 30

3. Part of a scale is shown below. What is the value of the reading at R?



- (1) 5.503
 - (2) 5.506
 - (3) 5.53
 - (4) 5.56
4. Georgia had only the following 7 coins in her pouch.



She took 4 coins from her pouch and dropped them into a donation tin. Which one of the following could **not** be her total donation?

- (1) \$0.70
- (2) \$1.75
- (3) \$2.10
- (4) \$2.65

5. Which one of the following has the same value as 6%?

(1) $\frac{6}{50}$

(2) $\frac{6}{20}$

(3) $\frac{3}{50}$

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

6. The sides of a triangle are in the ratio 3 : 2 : 5. The longest side is 90 cm. What is the length of the shortest side?

(1) 18 cm

(2) 36 cm

(3) 45 cm

(4) 225 cm

Use the table below to answer questions 7 and 8.

The table shows the number of sit-ups a group of boys did during a fitness test. Osman's record had been left out.

Name	Number of sit-ups
Muthu	25
Naszri	19
Osman	?
Peng Wei	24
Quah	13

7. The five boys did an average of 22 sit-ups. How many sit-ups did Osman do?

(1) 110

(2) 81

(3) 29

(4) 7

8. Who did 6 fewer sit-ups than Naszri?

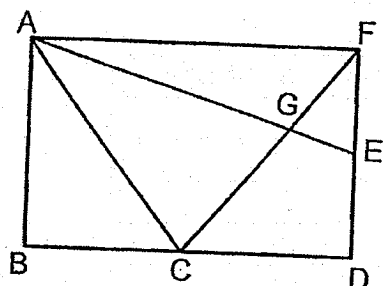
(1) Quah

(2) Muthu

(3) Osman

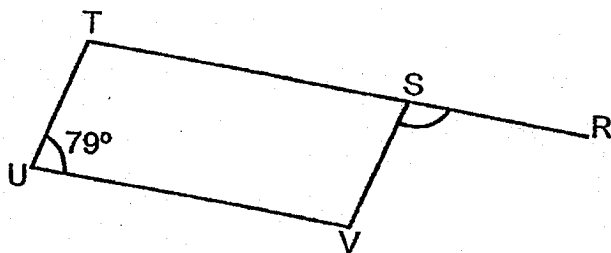
(4) Peng Wei

9. The figure below shows a rectangle ABDF. Which one of the following pairs of triangles has the same height?



- (1) Triangle ABC and Triangle EFG
- (2) Triangle AEF and Triangle CAG
- (3) Triangle CAB and Triangle AGF
- (4) Triangle CAF and Triangle CDF

10. The figure below shows a parallelogram SVUT. TSR is a straight line. Find $\angle VSR$.



- (1) 79°
- (2) 101°
- (3) 158°
- (4) 281°

11. Irfan took out $\frac{3}{8}$ of his money from his wallet.

He used only $\frac{1}{6}$ of what was taken out from his wallet to buy a windbreaker. What fraction of the money taken out from his wallet did Irfan use to buy the windbreaker?

(1) $\frac{1}{16}$

(2) $\frac{5}{24}$

(3) $\frac{11}{24}$

(4) $\frac{25}{48}$

12. In Happyworkz Factory, there are 308 workers. 25% of them are Singaporeans. Among the Singaporean workers, 29 of them are married. The rest are not married. How many of the Singaporean workers are not married?

(1) 202

(2) 106

(3) 77

(4) 48

13. The table below shows the ticket prices to a puppet show.
Mrs Lek and Mrs Ding took 8 children to the puppet show.
How much less did the 2 adults pay for their tickets than for the 8 children's tickets?

Type of ticket	Price per ticket
Per child	\$20
Per adult	\$32

- (1) \$44
(2) \$72
(3) \$96
(4) \$224
14. Mrs Thresh prepared 1 ℓ of orange juice. She spilled $\frac{1}{10}$ ℓ of the orange juice. She poured $\frac{2}{3}$ of the remaining orange juice into a flask containing $\frac{4}{5}$ ℓ of the same juice. How much orange juice was there in the flask in the end?

- (1) $1\frac{1}{10}$ ℓ
(2) $1\frac{1}{30}$ ℓ
(3) $1\frac{2}{5}$ ℓ
(4) $1\frac{11}{30}$ ℓ

15. Rhys went to the market to buy onions and prawns.
The prices are shown in the table below.

 100 g of onions for \$0.15	 100 g of prawns for \$4.10
---	--

Rhys bought 0.4 kg of onions. The mass of prawns that she bought was 300 g more than that of the onions. She paid the cashier \$50. How much change did she receive?

- (1) \$12.90
- (2) \$20.70
- (3) \$29.30
- (4) \$37.10

Name : _____ ()

Class: _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2018 Semestral Assessment Two

Paper 1

Booklet B

23 October 2018

Booklet A	20
Booklet B	25
Total (Paper 1)	45

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 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. Subtract 72 from 1 000 000.

Ans : _____

17. What is the value of $83 - 4 \times (9 + 18 \div 9)$?

Ans : _____

18. In $1.5 \div \boxed{?} = 0.015$, what is the missing number in the box?

Ans : _____

19. Look at the models below.

What is the ratio of P to Q to the total of P and Q?



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Ans : _____

20. A machine prints 35 brochures in 10 seconds. At this rate, how many brochures does the machine print in 1 minute?

Ans : _____

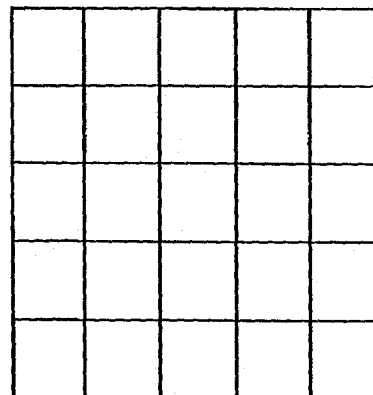
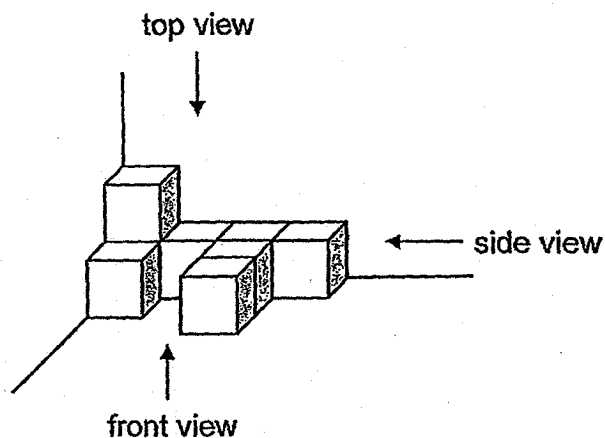
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

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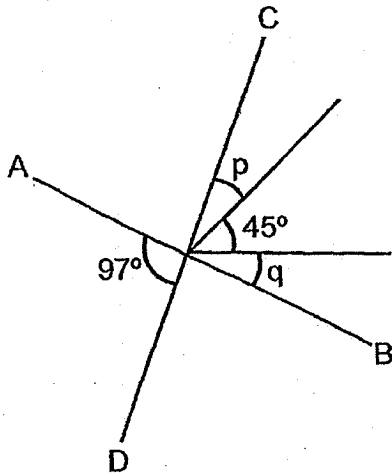
21. Yi Meen has 11 files and Shi Ni has 9 files. How many files will Yi Meen have to give Shi Ni so that Shi Ni has $\frac{7}{10}$ of the total number of files?

Ans : _____

22. The solid figure below is made up of identical cubes. Draw the top view of the solid figure in the square grid provided.

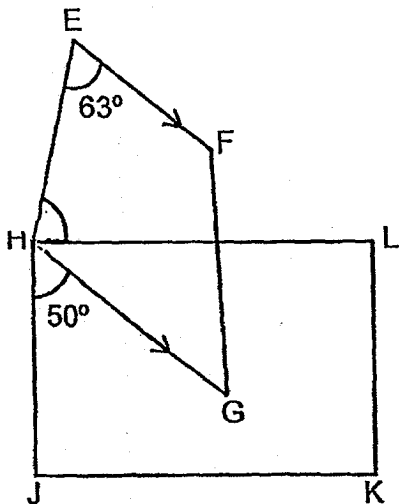


23. In the figure below, both AB and CD are straight lines. $\angle p = \angle q$.
Find $\angle p$.



Ans : _____ °

24. The figure below shows a rectangle HJKL and a trapezium EFGH.
Find $\angle EHL$.



Ans : _____ °



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25. A cubical container of edge 20 cm was $\frac{3}{5}$ filled with water.

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in this space

How much more water was needed to fill the cubical container to its brim?

Ans : _____ ml

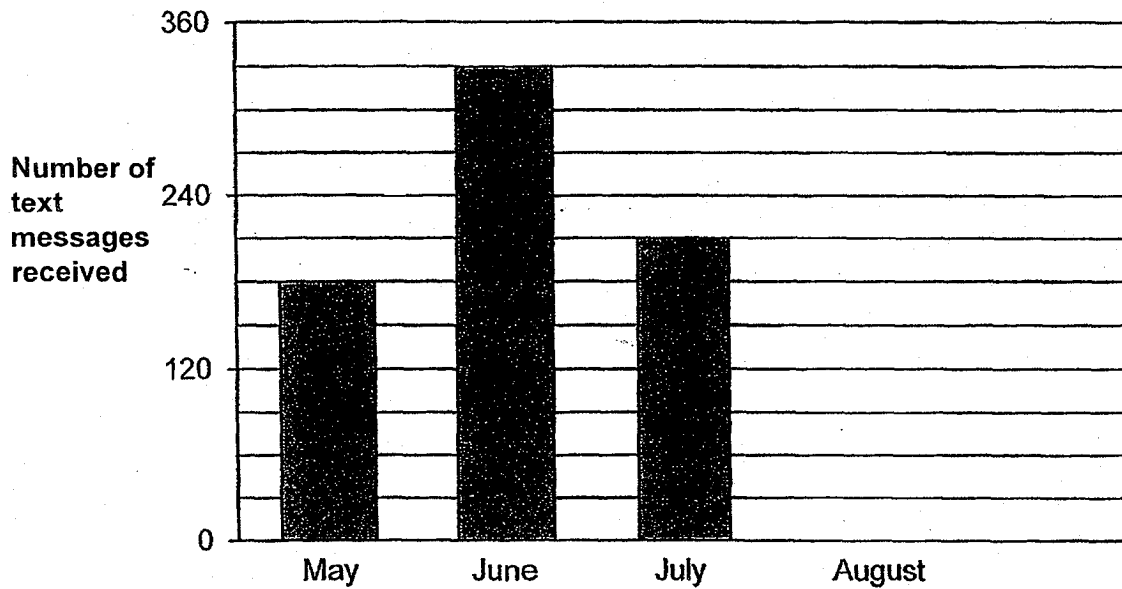
26. Peggy and her three sisters shared the cost of a gift for their mother equally. Peggy made a mistake and divided the cost of the gift by 3 instead. Each of them ended up paying \$8.90 more than her share. What should be the actual cost of the gift?

Ans : \$ _____

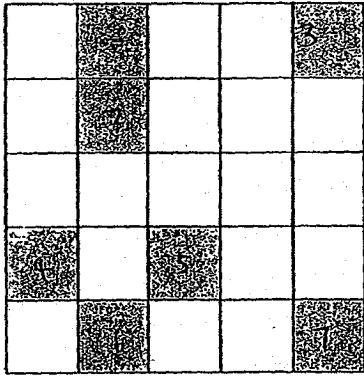


27. The graph below shows the number of text messages Delphi received on her mobile phone per month from May to July. The number of text messages she received in August was equal to the average number of text messages she received from May to July. Draw the bar for August in the graph.

Do not write
in this space



28. The figure below is made up of squares of the same size. How many more squares must be shaded so that 64% of the figure is unshaded?



Do not write
in this space

Ans : _____



29. A school hall has chairs of three different colours. $\frac{4}{9}$ of the chairs are yellow.

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The number of blue chairs is $\frac{1}{2}$ of the total number of blue and grey chairs.

There are 150 more yellow chairs than blue chairs. How many chairs are there in the school hall altogether?

Ans : _____



30. Azalea had some money at first. She spent \$71 on some plates and bowls. A plate cost \$7 and a bowl cost \$2. She bought 5 more plates than bowls.

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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 (✓) in the correct column.

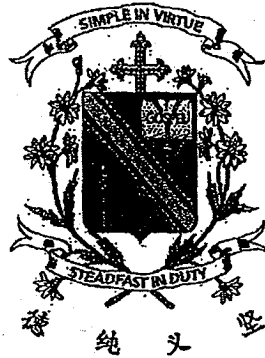
Statement	True	False	Not possible to tell
Azalea had no money left after spending \$71 on some plates and bowls.			
Azalea bought 15 plates and bowls altogether.			

End of Booklet B

Name : _____ ()

Class : _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



**Primary 5 Mathematics
2018 Semestral Assessment Two**

Paper 2

23 October 2018

Paper 1	45
Paper 2	55
Total Marks	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 16 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. Oretta cycled $2\frac{1}{8}$ km on Thursday. She cycled $1\frac{9}{10}$ km on Saturday.

What was the total distance Oretta cycled in the two days?
Leave your answer correct to 2 decimal places.

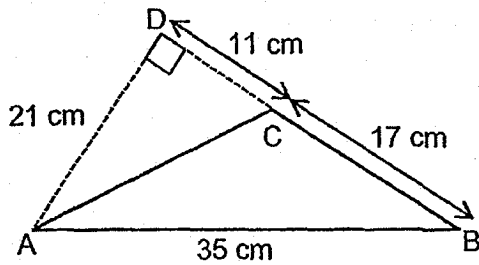
Ans : _____ km

2. Meng saved \$47 000 in a bank. The bank paid 5% interest at the end of each year. He did not withdraw any money from the bank. How much interest did Meng earn at the end of 1 year?

Ans : \$ _____



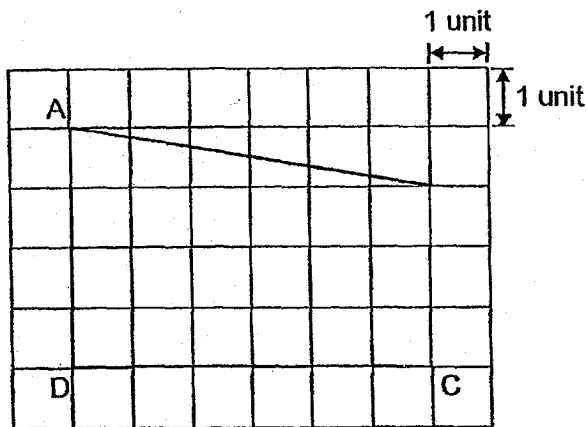
3. What is the area of triangle ABC?



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Ans : _____ cm^2

4. The square grid below shows two sides of a trapezium, AD and DC. Complete the trapezium ABCD where $AD \parallel BC$ and $BC = 3$ units. Label the trapezium ABCD.



5. The sum of 19 numbers is 889. When 6 numbers are removed, the average of all the remaining numbers becomes 39. What is the sum of the 6 numbers which are removed?

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

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6. Mrs Seetoh bought some tins of cookies. There were 36 cookies in each tin. Mrs Seetoh divided all the cookies equally into 12 boxes. She gave 3 such boxes to her pupils and 70 cookies to her colleagues. In the end, she had 65 cookies left. How many tins of cookies did Mrs Seetoh buy?

Ans : _____ [3]

7. The total mass of a box with 30 identical cones and 10 identical rubber rings is 169.5 kg. Each cone has a mass of 3.3 kg. The mass of each rubber ring is the same as the total mass of 2 such cones. What is the mass of the empty box?

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Ans : _____ [3]



8. The table below shows the charges for surfing the internet in Wondersurf Cyber Café.

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Duration	Charges
1 st hour	\$8.00
Subsequent half an hour or part thereof	\$3.50

Viknesh paid \$22 for surfing the internet in the café. What was the greatest number of hours he spent surfing the internet?

Ans : _____ [3]

☐

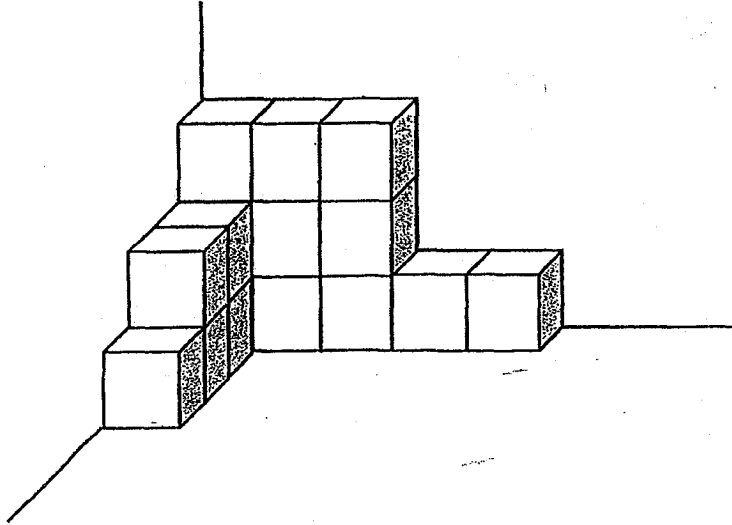
9. A dress cost \$140. During a sale, the shop owner gave a discount of 30% on the dress. Mei Mei bought a few of such dresses and saved a total of \$168. How many dresses did she buy?

Do not
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Ans : _____ [3]

10. Keegan used identical cubes of edge 1 cm to form the solid figure, as shown below. Then he added some more cubes to the solid figure and rearranged all the cubes to form another bigger cube. What was the least number of cubes that he added to form the bigger cube?

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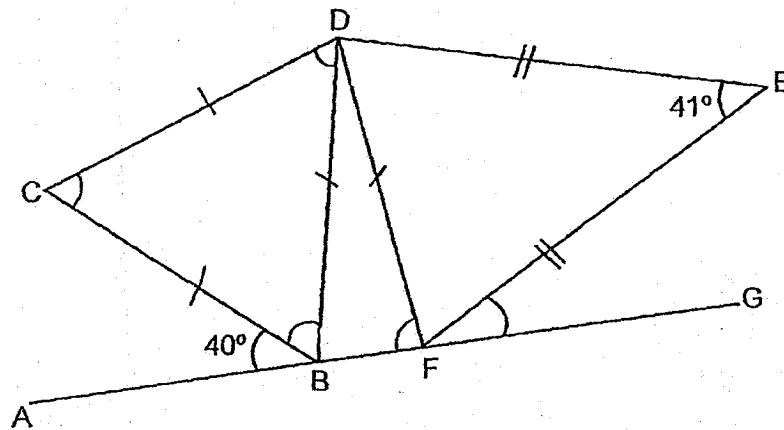


Ans : _____ [3]



11. The figure below shows an equilateral triangle BCD and two isosceles triangles DBF and DEF . $ABFG$ is a straight line. Find $\angle EFG$.

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Ans : _____ [3]



12. Mr Zid donated $\frac{1}{7}$ of his money to a children's home. He donated \$600 less to an old folks' home than to the children's home. He had \$9600 left. How much money did Mr Zid donate to the children's home and the old folks' home altogether?

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Ans : _____ [4]

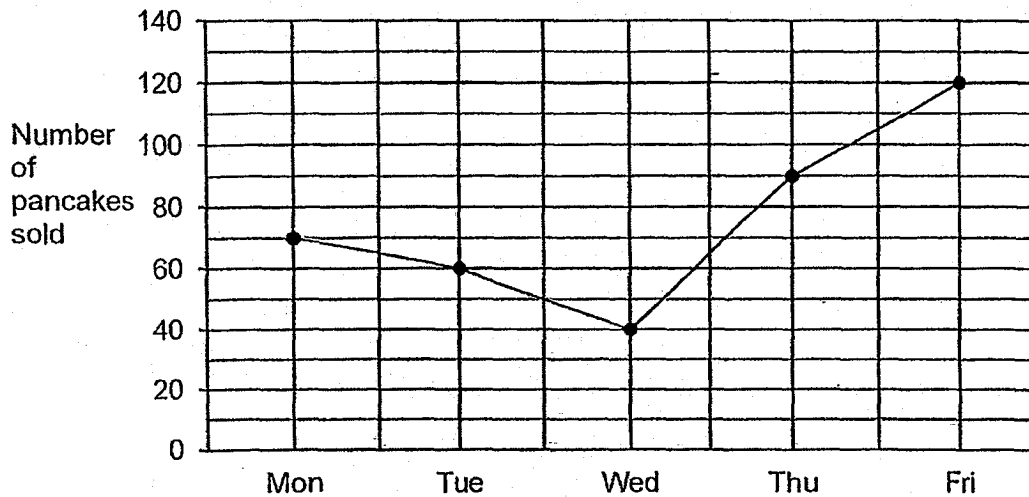
13. At Kool Fruitty Stall, there was an equal number of guavas, watermelons and pineapples at first. 54 guavas and 26 watermelons were sold. None of the pineapples was sold. The number of pineapples which was unsold was 4 times of the number of guavas left unsold. What fraction of the total number of fruits at first were sold? Give your answer in the simplest form.

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Ans : _____ [4]

14. The graph below shows the number of pancakes sold by a coffeehouse every day from Monday to Friday. Each pancake was sold at \$1.80.

Do not write in this space



- (a) Write down all the days when the coffeehouse sold at least 70 pancakes per day.
- (b) The coffeehouse sold 21 more pancakes on Saturday than on Friday. What was the average amount of money collected from the sale of pancakes on Friday and Saturday?

Ans : (a) _____ [1]

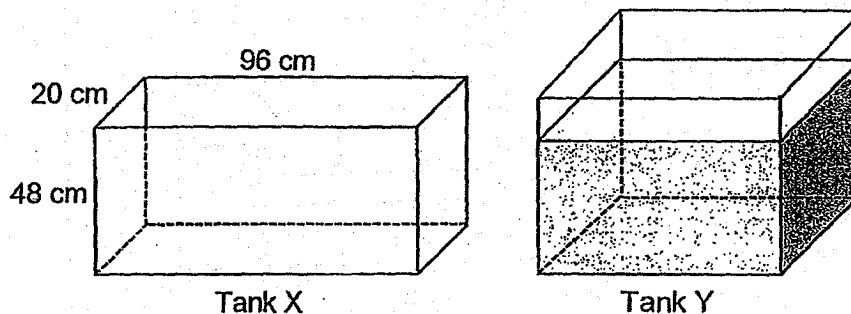
(b) _____ [3]



15. Two rectangular tanks are shown below.

Tank X measuring 96 cm by 20 cm by 48 cm was empty. Tank Y was $\frac{5}{6}$ filled with water. Some water in Tank Y was poured into Tank X without any spilling and filled up $\frac{3}{4}$ of Tank X. There was 31 600 cm³ of water left in Tank Y.

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this space



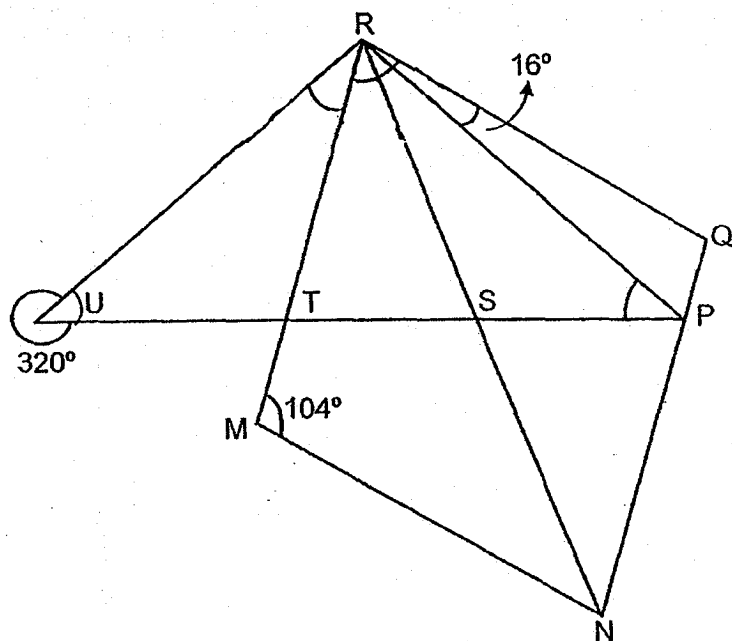
- (a) What was the volume of water in Tank X?
- (b) What was the capacity of Tank Y? Leave your answer in litres:

Ans : (a) _____ [2]

(b) _____ [3]

16. The figure below shows a rhombus $MNQR$ and a triangle URP . RN is a straight line.

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- (a) Find $\angle NRP$.
(b) Find the sum of $\angle URT$ and $\angle RPU$.

Ans : (a) _____ [3]

(b) _____ [2]



17. In the morning, Tyvia sold some sardine puffs at 6 for \$10. In the afternoon, she received \$210 from selling $\frac{7}{12}$ of the remaining sardine puffs at \$2 each. In the end, she had $\frac{1}{4}$ of the total number of sardine puffs left. How much money did Tyvia receive from selling the sardine puffs in the morning?

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Ans : _____ [5]



End of Paper

SCHOOL : CHIJ PRIMARY SCHOOL
 LEVEL : PRIMARY 5
 SUBJECT : MATH
 TERM : 2018 SA2

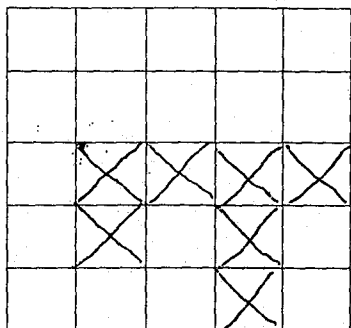
PAPER 1 BOOKLET A

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

Q11	Q12	Q13	Q14	Q15
1	4	3	3	2

PAPER 1 BOOKLET B

Q16)	$1\,000\,000 - 72 = 999\,928$
Q17)	$83 - 4(9 + 18 \div 9)$ $= 83 - 4 \times 11$ $= 83 - 44 = 39$
Q18)	$1.5 \div 0.015 = 100$
Q19)	$5 + 2 = 7$ $P : Q : P + Q$ $2 : 5 : 7$
Q20)	$1\text{ min} = 60\text{ seconds}$ $60 \div 10 = 6$ $6 \times 35 = 210$
Q21)	$11 + 9 = 20$ $20 \div 20 = 1$ $1 \times 14 = 14$ $14 - 9 = 5$
Q22)	



Q23) $180^\circ - 97^\circ = 83^\circ$
 $180^\circ - 83^\circ - 45^\circ = 52^\circ$
 $\angle p = \angle q$
 $52^\circ \div 2 = 26^\circ$

Q24) $180^\circ - 63^\circ = 117^\circ$
 $90^\circ - 50^\circ = 40^\circ$
 $117^\circ - 40^\circ = 77^\circ$

Q25) $(20 \div 5) \times 2 = 8$
 $20 \times 20 \times 8 = 3200\text{ml}$

Q26) $4 - 3 = 1$
 $\$8.90 \times 12 = \106.80

Q27) $240 - 120 = 120$
 $120 \div 4 = 30$
 $120 + 30 + 30 = 180$
 $240 + 30 + 30 + 30 = 330$
 $240 - 30 = 210$
 $210 + 330 + 180 = 720$
 $720 \div 3 = 240$

Q28) $64/100 \times 25 = 16$
 $18 - 16 = 2$

Q29) 900

Q30) Not possible to tell
False

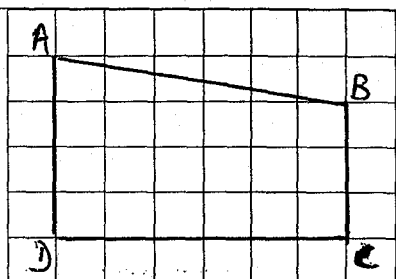
PAPER 2

Q1) 4.03km

Q2) $5/100 \times 47000 = \$2350$

Q3) $\frac{1}{2} \times 17 \times 21 = 178.5 \text{ cm}^2$

Q4)



Q5) $19 - 6 = 13$
 $39 \times 13 = 507$
 $889 - 507 = 382$

Q6) $12 - 3 = 9$
 $65 + 70 = 135$
 $135 \div 9 = 15$
 $15 \times 12 = 180$
 $180 \div 36 = 5$

Q7) 1 cone $\rightarrow$ 3.3kg
 1 rubber ring $\rightarrow$ $3.3 \times 2 = 6.6$ kg
 $30 \times 3.3 = 99$
 $10 \times 6.6 = 66$
 $169.5 - 66 - 99 = 4.5$ kg

Q8) $\$22 - \$8 = \$14$ (1 hour)
 $\$14 \div \$3.50 = \$9$ 2 hour)
 $2 + 1 = 3$ hours

Q9) $30 / 100 \times 140 = 42$
 $\$168 \div \$42 = 4$

Q10) $1 \times 1 \times 1 = 1$
 $2 \times 2 \times 2 = 8$
 $3 \times 3 \times 3 = 27$
 $27 - 16 = 11$

Q11) $180^\circ \div 3 = 60^\circ$
 $180^\circ - 60^\circ - 40^\circ = 80^\circ$
 $\angle DBF = \angle DFB$
 $(180^\circ - 41^\circ) \div 2 = 69.5^\circ$
 $180^\circ - 80^\circ - 69.5^\circ = 30.5^\circ$

Q12) $\$9600 - \$600 = \$9000$
 $\$9000 \div 5 = \1800
 $\$1800 \times 2 = \3600
 $\$3600 - \$600 = \$3000$

Q13) $4 \times 3 = 12$
 $54 \div 3 = 18$
 $18 \times 12 = 216$
 $54 + 26 = 80$

80/216 = 10/27	
Q14)	a)Monday, Thursday and Friday. b)120 + 21 = 141 $141 + 120 = 261$ $261 \times \$1.80 = \469.80 $\$469.80 \div 2 = \234.90
Q15)	a)(48 ÷ 4) x 3 = 36 $36 \times 20 \times 96 = 69120 \text{ cm}^3$ b)69120 + 31600 = 100720 $100720 \div 5 = 20144$ $20144 \times 6 = 120864$ $120864 \text{ cm}^3 = 120864\text{ml}$ $= 120.864\text{L}$
Q16)	a)180° – 104° = 76° $360^\circ - 320^\circ = 40^\circ$ $76^\circ \div 2 = 38^\circ$ $76^\circ - 38^\circ - 16^\circ = 22^\circ$ b)38° + 22° = 60° $360^\circ - 320^\circ = 40^\circ$ $180^\circ - 60^\circ - 40^\circ = 80^\circ$
Q17)	$210 \div 2 = 105$ $\frac{1}{4}$ of total → 5units 7units of R → 105 1unit of R → $105 \div 7 = 15$ Total → $4 \times 5 = 20$ units $20 - 12 = 8$ $15 \times 8 = 120$ $120 \div 6 = 20$ $20 \times 10 = \$200$