Name: _____

Class: Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2021 End - Year Assessment

Paper 1

Booklet A

2 November 2021

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.

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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)

---

1. In which one of the following numbers does the digit 5 have a value of 50 000?

(1) 1 243 506

(2) 3 705 291

(3) 4 658 120

(4) 6 582 437

2. Which one of the following fractions is smaller than $\frac{1}{4}$?

(1) $\frac{5}{6}$

(2) $\frac{3}{8}$

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

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

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3. $16 + \frac{\boxed{?}}{10} = 17.8$

What is the missing number in the box?

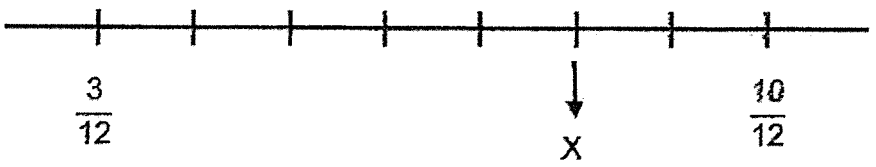
(1) 0.8

(2) 1.8

(3) 18

(4) 180

4. In the number line below, what is the value of X?



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

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

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

(4) $\frac{7}{12}$

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5. Yu Wen had $7000 in her bank account. The bank paid 2% interest at the end of each year. She did not withdraw any of her savings. How much interest did she earn at the end of 1 year?

(1) $140

(2) $350

(3) $6860

(4) $7140

6. There are 10 chickens at a farm. There are 35 more ducks than chickens. What is the ratio of the number of ducks to the number of chickens?

(1) 2 : 7

(2) 2 : 9

(3) 7 : 2

(4) 9 : 2

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Lovely Flower Shop sold a total of 80 flowers on Monday. The table below shows the number of different types of flowers sold on that day. The number of tulips sold is not known.

Refer to the table below to answer questions 7 and 8.

Type of flowers sold	Number of flowers sold
Daisies	20
Lilies	15
Roses	25
Tulips	?

7. What is the total number of tulips and daisies sold on Monday?

(1) 20

(2) 40

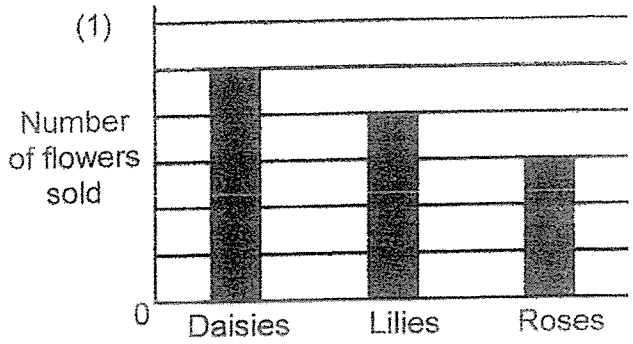
(3) 60

(4) 80

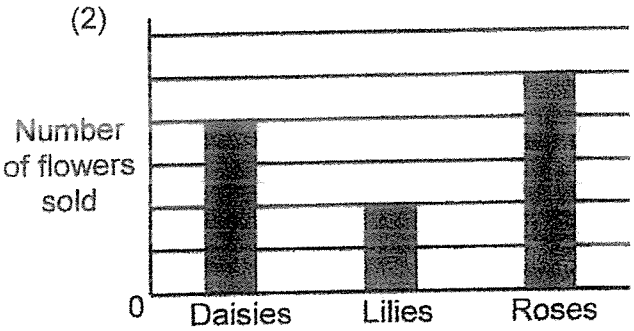
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8. Which one of the following graphs represents the information shown in the table correctly?

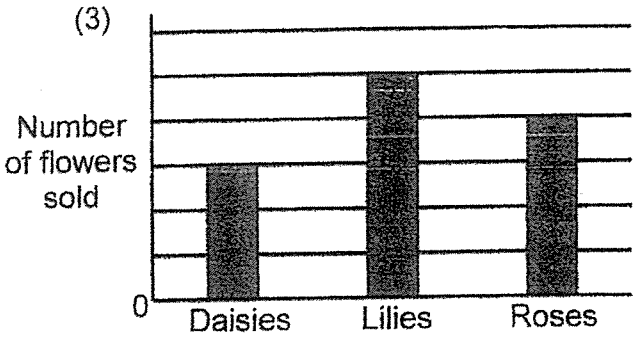
(1)



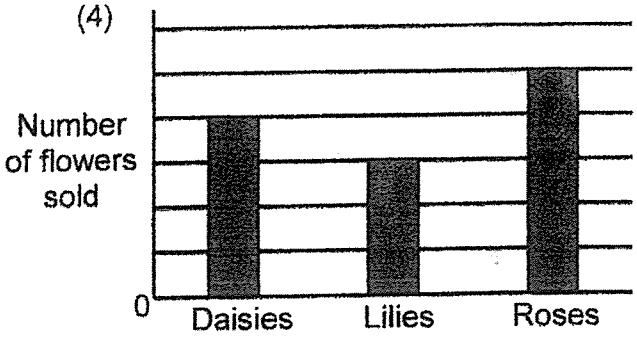
(2)



(3)



(4)



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9. Harumi had a piece of string 4 m 6 cm. She cut off 1.3 m from it. What is the length of the remaining string?

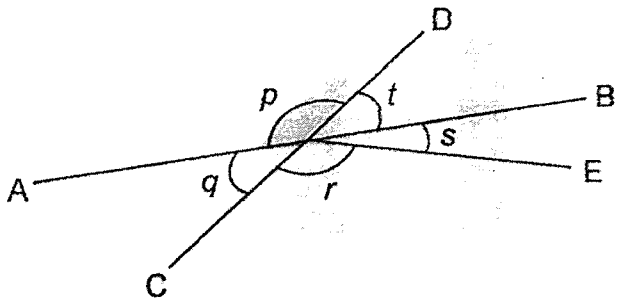
(1) 276 cm

(2) 330 cm

(3) 393 cm

(4) 447 cm

10. In the figure shown below, AB and CD are straight lines.
Which one of the following statements is true?



(1) $\angle p = \angle r$

(2) $\angle q = \angle t$

(3) $\angle p = \angle q + \angle r$

(4) $\angle q = \angle t + \angle s$

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11. A sandwich costs $6.05. Leonard bought 4 such sandwiches and had $1.85 left. How much money did he have before buying the 4 sandwiches?

(1) $4.20

(2) $7.90

(3) $22.35

(4) $26.05

12. Amiya and Eunice have **$2100 altogether.** Amiya has **30%** of the money. How much money does **Amiya have?**

(1) $21

(2) $70

(3) $300

(4) $630

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13. A store charges the following rates for the order of T-shirts.

First 15 pieces	\$6 per piece
For every additional piece	\$4 per piece

What is the cost of ordering 50 pieces of T-shirts?

(1) \$200

(2) \$230

(3) \$270

(4) \$300

14. Mrs Urvi cut a cake into 16 equal pieces. She ate 3 pieces and gave a few pieces to her friends. In the end, she had $\frac{3}{8}$ of the cake left. What fraction of the cake did she give to her friends?

(1) $\frac{3}{16}$

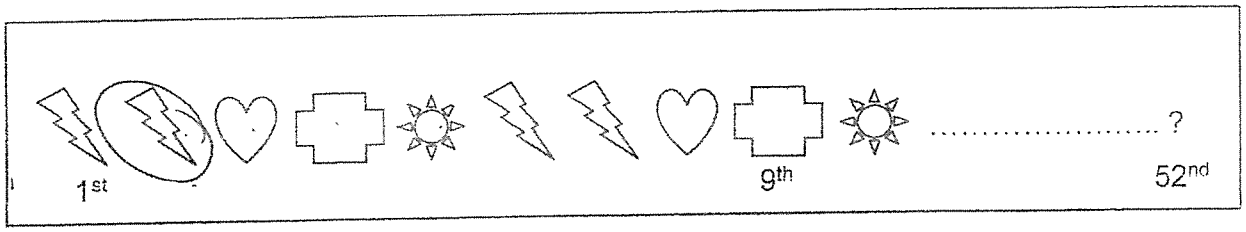
(2) $\frac{5}{8}$

(3) $\frac{7}{16}$

(4) $\frac{9}{16}$

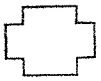
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15. Jamil used some shapes to form a pattern. The first 9 shapes are shown below. Which shape is in the 52nd position?



(1) 

(2) 

(3) 

(4) 

End of Booklet A

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Name: _____ ( )

Class: Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2021 End - Year Examination

Paper 1

Booklet B

2 November 2021

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 9 printed pages.

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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)

Do not write in this space

16. Find the value of 57 ÷ 300. Leave your answer as a decimal.

Ans : _____

17. Find the value of 11 + (18 – 14 ÷ 2) x 3.

Ans : _____

18. What is six-fifths of 60?

Ans : _____

MARKS: ☐

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19. Mrs Cheah bought an iron which included a GST of 7%. The price of the iron before GST was $90. How much did she pay for the iron?

Do not write in this space

Ans : $ _____

20. A photocopier can copy 48 pages in 4 minutes. At this rate, how many pages can the photocopier copy per minute?

Ans : _____

MARKS: [ ]

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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)

Do not write in this space

21. Arrange the following from the smallest to the largest.

$$0.209 \quad , \quad \frac{1}{5} \quad , \quad \frac{2}{1000}$$

Ans : _____

22. Last year, Bertrand completed a race in 51.98 seconds. This year, he completed the same race and was faster by 1.31 seconds. What was Bertrand's timing this year? Round your answer to 1 decimal place.

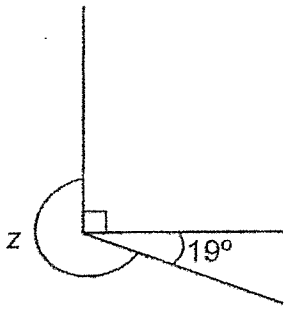
Ans : _____ s

MARKS: ____

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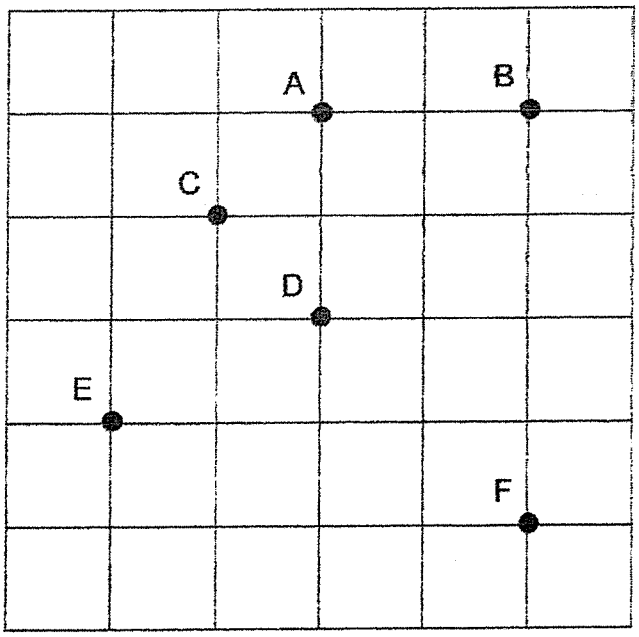
Do not write in this space

23. In the figure below, find $\angle z$.



Ans : _____°

24. Refer to the square grid below. Caden was standing at one of the points, facing point B. After making a $\frac{3}{4}$ - turn anticlockwise, he was facing point F. At which point was he standing?



Ans : _____

MARKS:

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25. The height of a cuboid is 20 m. Its height is twice its length. Its breadth is 6 m shorter than its length. Find the volume of the cuboid.

Do not write in this space

Ans : _____ m^3

26. At first, a pot contained $\frac{2}{5}$ ℓ of water. Keisha added another $\frac{1}{2}$ ℓ of water into the pot. Then she used $\frac{2}{9}$ of all the water in the pot. How much water did Keisha use? Express your answer as a fraction in its simplest form.

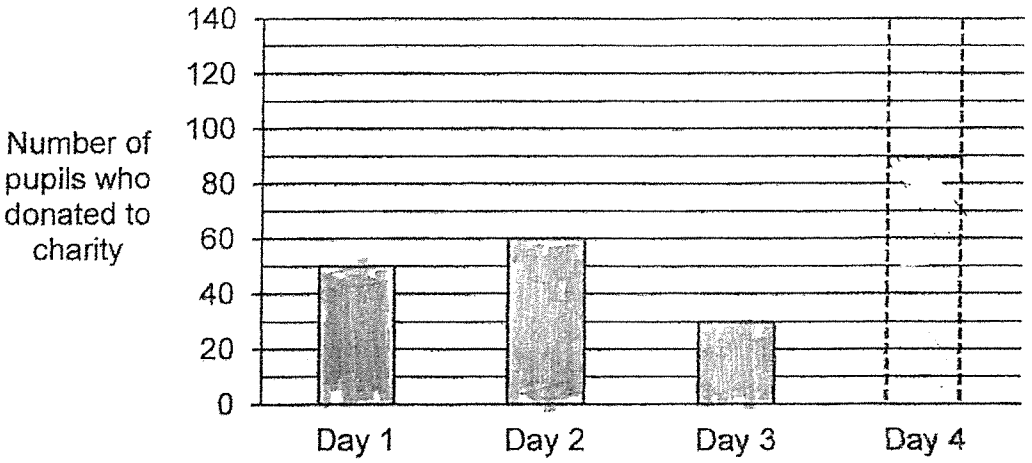
Ans : _____ ℓ

MARKS:

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27. The bar graph below shows the number of pupils who donated to charity over 4 days. The bar representing Day 4 has not been drawn.

Do not write in this space



Over the 4 days, all the pupils donated a total amount of $460.
Each pupil donated $2. How many pupils donated on Day 4?

Ans : _____

MARKS:

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28 The ratio of Jim's age to Frank's age is 1 : 6. In 5 years' time, they would be 73 years old altogether. What is Jim's age now?

Do not write in this space

Ans : _____

29. Two different whole numbers add up to 140. One of them is a 2-digit number and the other is a 3-digit number. What are the two numbers that will give the greatest possible difference?

Ans : _____ and _____

MARKS:

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30. There were 80 more men than women at a concert. The number of men was $\frac{5}{8}$ of the total number of adults. There was an equal number of boys and girls at the concert.

Do not write in this space

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
(a)	There were 120 women at the concert.			
(b)	There were more females than males at the concert.			

End of Booklet B

MARKS:

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Name: _____ ( )

Class: Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2021 End - Year Assessment

Paper 2

2 November 2021

Paper 1	45
Paper 2	55
Total Marks	100

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.

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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. When a number is divided by 3, the answer is 6041. What is the answer obtained when the same number is divided by 7?

Ans : _____

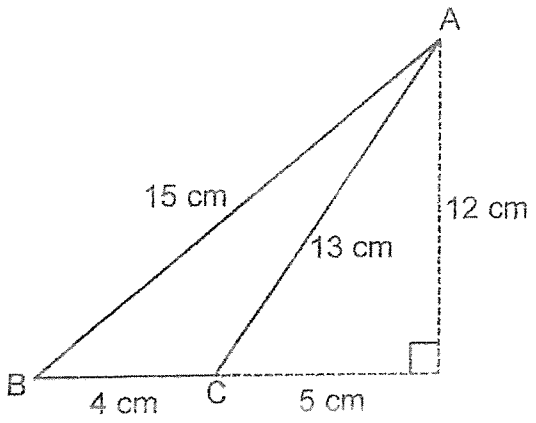
2. There were 1780 people at a carnival. 45% of them were adults and the rest were children. How many children were at the carnival?

Ans : _____

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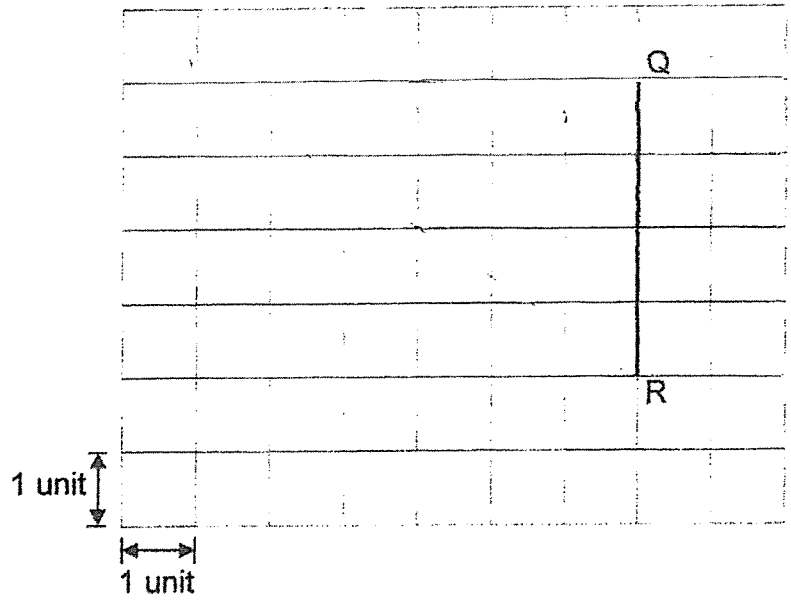
Do not write in this space

3. Find the area of triangle ABC.



Ans : _____ cm²

4. In the square grid below, draw a right-angled triangle PQR where PQ = 6 units. Line QR has been drawn for you. Label PQR clearly.



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5. Meri is given a card with 3 numbers circled. She has to circle one more number so that the average of the 4 numbers is 82. Write down the number that Meri should circle.

Do not write in this space

(88)	81	84
83	(86)	80
89	75	(79)

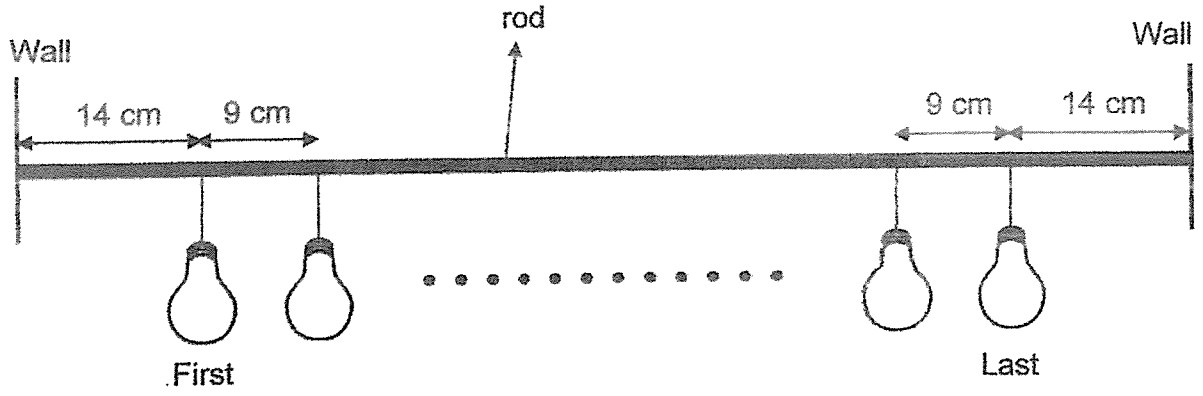
Ans : _____

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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)

Do not write in this space

6. Some identical lightbulbs were hung on a rod 91 cm long. The first and the last lightbulb were hung 14 cm away from each end of the rod. The rest of the lightbulbs were hung at an equal distance of 9 cm apart. How many lightbulbs were hung on the rod altogether?



Ans : _____ [3]

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7. Cecily and Nadine shared the total cost of a handbag. Cecily paid $39 more than $\frac{4}{9}$ of the total cost of the handbag. Nadine paid $186. How much did the handbag cost?

Do not write in this space

Ans : _____ [3]

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8. The table below shows the charges for renting a bicycle.

Do not write in this space

Days	Time	Charge
Mon to Fri	9 a.m. to 8 p.m.	$11 per hour
Sat and Sun	8 a.m. to 4 p.m.	$14 per hour
	4 p.m. to 7 p.m.	$15 per hour

(a) Lei Xin rented a bicycle from 9 a.m. to 12 noon on Thursday. How much did she pay?

(b) On Sunday, Deric rented a bicycle and returned it at 5 p.m. He paid a total amount of $71. For many hours did he rent the bicycle?

Ans : (a) _____ [1]

(b) _____ [2]

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9. Winsy had some purple beads and an **equal number** of red beads and yellow beads. The ratio of the number **of purple beads to the number of red beads** was 5 : 7. Winsy had 210 more red beads than purple beads. How many **red beads and yellow beads** did she have **altogether?**

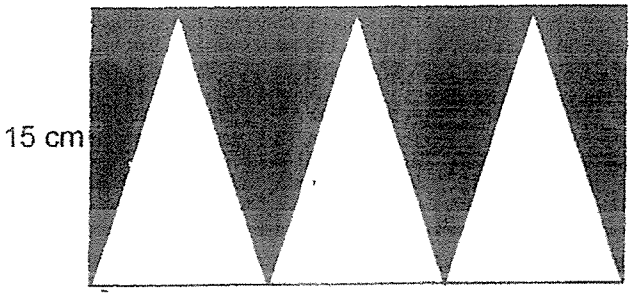
Do not write in this space

Ans : _____ [3]

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10. The rectangle below is made up of some triangles. The three unshaded triangles are identical. The perimeter of the rectangle is 84 cm. Its breadth is 15 cm. Find the total area of the shaded triangles.

Do not write in this space



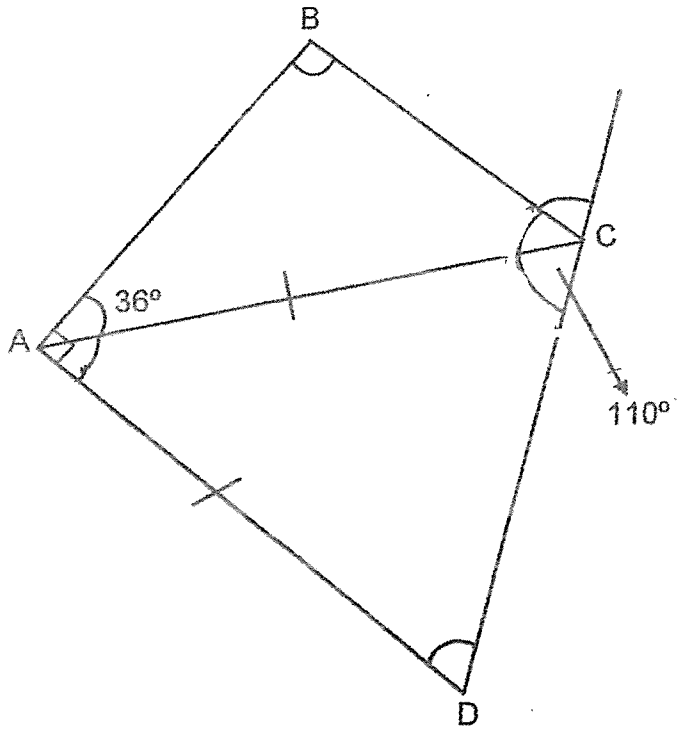
Ans : _____ [3]

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11. In the figure below, ABC and ACD are triangles. $\angle BAC = 36^\circ$ and $\angle BCD = 110^\circ$ $AC = AD$. Find $\angle ABC$.

Do not write in this space



Ans : _____ [3]

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12. At Doughnut Empire, each doughnut is sold at $1.10 or in a box of 11 for $8.90. Mrs Kor wants to buy exactly 208 doughnuts. What is the least amount of money that she needs to pay for the doughnuts?

Do not write in this space

Ans : _____ **[4]**

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13. Vinette had some white and black face masks. $\frac{1}{6}$ of them were white. She gave away $\frac{1}{3}$ of the white face masks and $\frac{1}{3}$ of the black face masks. In the end, she had 156 white and black face masks altogether. How many black face masks did Vinette have at first?

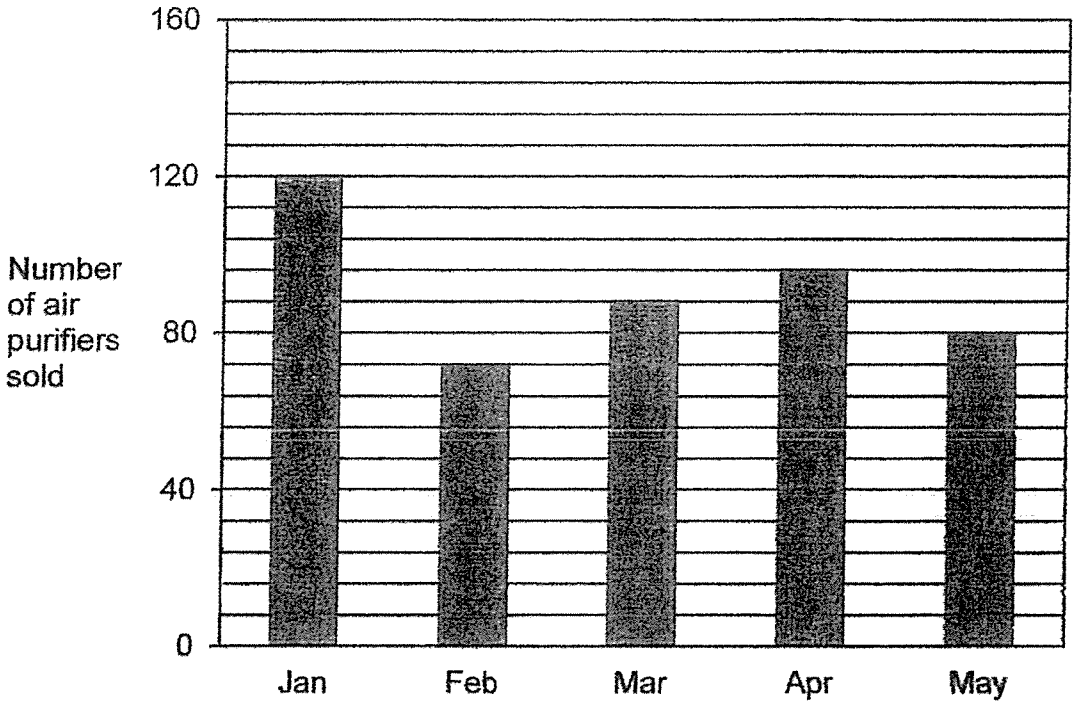
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Ans : _____ [4]

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14. The graph below shows the number of air purifiers sold by Mr Seng from January to May.

Do not write in this space



(a) Write down all the months in which Mr Seng sold at least 88 air purifiers.

(b) Mr Seng sold 40 more air purifiers in June than in May. Find the average number of air purifiers sold from March to June.

Ans : (a) _____ [1]

(b) _____ [3]

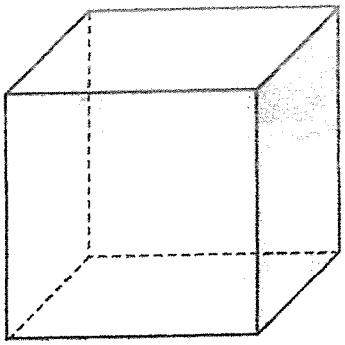
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15. Tank Q is a cubical container of edge 30 cm. It is completely filled with water. Tank R is a rectangular tank measuring 56 cm by 31 cm by 18 cm. It is filled with water flowing from a tap at a rate of 0.6 ℓ per minute. 6 minutes later, the tap is turned off.

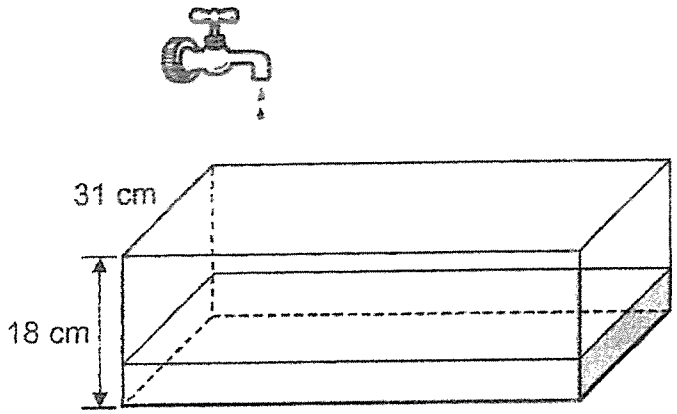
Do not write in this space

(a) Find the volume of water in Tank R after 6 minutes.

(b) All the water in Tank Q is then poured into Tank R without spilling.
How much more water is needed to fill Tank R completely?
Give your answer in litres.



Tank Q



Tank R

Ans : (a) _____ [1]

(b) _____ [4]

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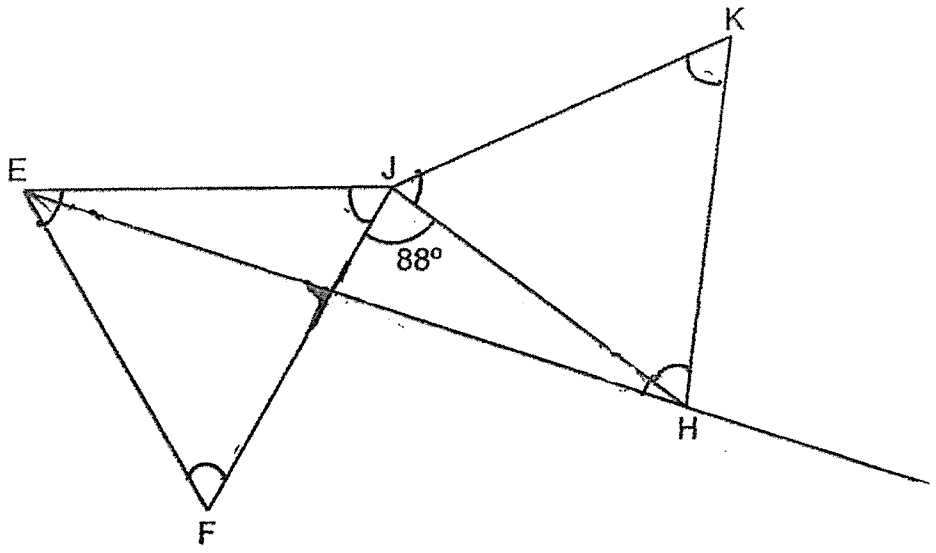
16. The figure below shows two identical equilateral triangles JEF and JHK. ∠FJH = 88°. EGH is a straight line.

Do not write in this space

(a) Name an acute-angled triangle in the figure.

(b) Find ∠EJK.

(c) Find ∠FGE.



Ans : (a) Triangle _____ [1]

(b) _____ [2]

(c) _____ [2]

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17. Rei and Ning drew lines to form triangles and stars.



(a) Rei formed a total of 10 triangles and stars. She drew 48 more lines for the stars than for the triangles. How many stars did she form?

(b) Ning drew 14 more triangles than stars. The number of lines drawn for the triangles was the same as the number of lines drawn for the stars. The total number of lines drawn was more than 30 but less than 180. What fraction of the shapes that Ning had drawn were stars?

Ans : (a) _____ [2]

(b) _____ [3]

Do not write in this space

End of Paper

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ANSWER KEY

YEAR : 2021
LEVEL : PRIMARY 5
SCHOOL : CHIJ ST NICHOLAS GIRLS' SCHOOL
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATION

BOOKLET A

Q1	3	Q2	4	Q3	3	Q4	2	Q5	1
Q6	4	Q7	2	Q8	4	Q9	1	Q10	2
Q11	4	Q12	4	Q13	2	Q14	3	Q15	1

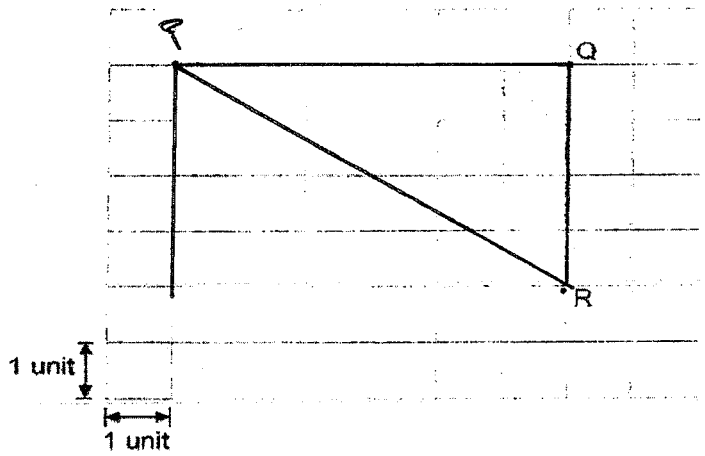
BOOKLET B

Q16	57÷300=0.19
Q17	11+11×3=44
Q18	6×12=72
Q19	7%➔7×0.90=6.30 90+6.30=$96.30
Q20	48÷4=12
Q21	$\frac{2}{1000}$, $\frac{1}{5}$, 0.209
Q22	51.98−1.31=50.67 ≈50.7
Q23	360−90−19=251°
Q24	D
Q25	$10\times4\times20=800m^3$
Q26	$\frac{2}{5}+\frac{1}{2}=\frac{4}{10}+\frac{5}{10}=\frac{9}{10}$ 9u➔$\frac{9}{10}$ 1u➔$\frac{1}{10}$ $\frac{1}{10}\times2=\frac{2}{10}=\frac{1}{5}\ell$
Q27	50+60+30=140 140×2=280 460−280=180 180÷2=90
Q28	5×2=10 73−10=63 63÷7=9 years old
Q29	10 and 130
Q30	a) True✔ b) False✔

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ANSWER KEY

YEAR : 2021
LEVEL : PRIMARY 5
SCHOOL : CHIJ ST NICHOLAS GIRL'S SCHOOL
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATION (PAPER 2)

Q1	6041×3=18123 18123÷7=2589
Q2	100−45=55 100%➔1780 55%➔$\frac{1780}{100}$×55=979
Q3	$\frac{1}{2}$×4×12=24cm^2
Q4	
Q5	75+88+86+79=328 328÷4=82 ans: 75
Q6	91−14−14=63 63÷9=7 7+1=8
Q7	5U➔186+39=225 1U➔225÷5=45 9U➔45×9=$405
Q8	a) 2 hour + 1 hour = 3 hour 3×11=$33 ans: $33 b) 4×14=56 56+15=71 4 hour + 1 hour = 5 hours ans: 5 hours

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Q9	R:Y:P 7:7:5 7−5=2 2u=210 1U=210÷2=105 7+7=14 14u=105×14=1470
Q10	Length of rectangle: 84−15−15=54 54÷2=27 Base of unshadeed triangle: 27÷3=9cm^2 Area of rectangle: 27×15=405cm^2 $\Delta=\frac{1}{2}\times9\times15=67.5\text{cm}^2$ $\Delta=\frac{1}{2}\times9\times15=67.5\text{cm}^2$ 67.5+67.5+67.5=202.5cm^2 405−202.5=202.5cm^2
Q11	110−63=47 180°−47°−36°=97° 180°−47°−36°=97°
Q12	208÷11=18R10 18×8.90=160.20 160.20+11=171.20
Q13	2+10=12 12U=156 1U=156÷12=13 13×15=195 black mask
Q14	80+40=120 88+96+80120=384 384÷4=96 a)Jan,Mar,Apr b)96
Q15	Volume of Tank Q= 30×30×30 27000cm^3 27000cm^3=27ℓ Volume of Tank R= 31×18×56 =31248cm^3 31248cm^3=31248mℓ =31.248mℓ 0.6×6=3.6 (a) 31.248−3.6=27.648 27.648−27=0.648ℓ (b)

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Q16	180−44−60=76° 360°−88°−60°−60°=152° a)Triangle JEF b)152° c)76°
Q17	20×3=60 20−14=6 6×10=60 60+60=120 Δ➔ 4×3=12 ☆ ➔ 10×6=60 60−12=48 a)6 stars b)$\frac{3}{13}$

4
END

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