NAN HUA PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1 – 2019

PRIMARY FOUR

MATHEMATICS

INSTRUCTIONS TO CANDIDATES

1. Write your name, register number and class 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. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1 - 20.

Marks Obtained

Section	Maximum Marks	Actual Marks
A	40	
B	40	
C	20	
Total	100	

Name : _____ ( )

Class : Pr 4 _____

Date : 16 May 2019

Duration: 1 h 45 min

Parents' Signature: _____

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Section A (20 × 2 marks)

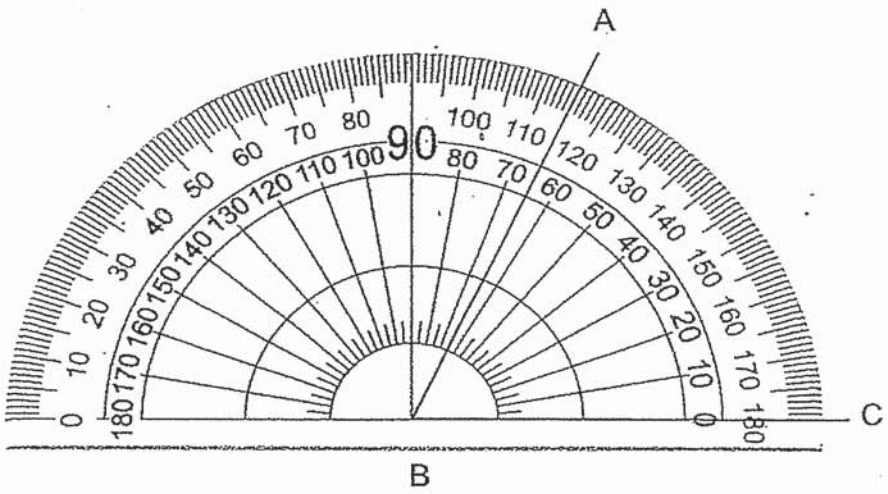
Questions 1 to 20 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade the correct oval on the OAS (40marks).

1. What is the missing number?

   23 410 = 20 000 + 3000 + _____ + 10

   (1) 40
   (2) 400
   (3) 4000
   (4) 40 000 ( )

2. What is the size of ∠ABC?



   (1) 65°
   (2) 75°
   (3) 115°
   (4) 125° ( )

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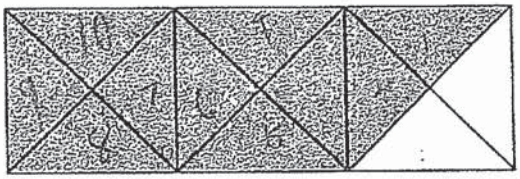
3. Round 5249 to the nearest hundred.

(1) 5000
(2) 5200
(3) 5300
(4) 6000 ( )

4. Which of the following is the same as 50 090 m?

(1) 5 km 90 m
(2) 50 km 9 m
(3) 50 km 90 m
(4) 500 km 90 m ( )

5. Which fraction of the figure is shaded?

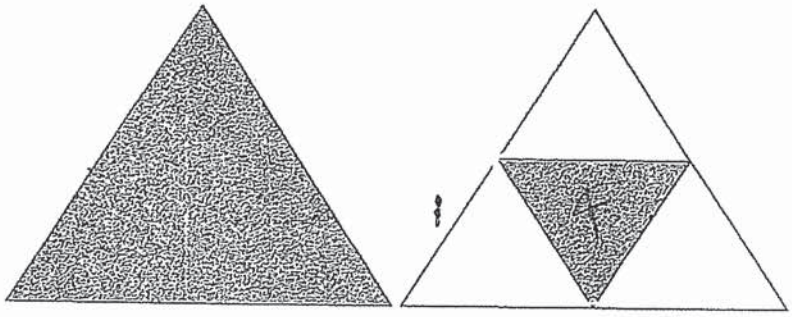


(1) $\frac{3}{4}$
(2) $\frac{4}{5}$
(3) $\frac{5}{6}$
(4) $\frac{6}{7}$

( )

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6. What mixed number does the following represent?



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

(2) $1\frac{1}{4}$

(3) $1\frac{1}{5}$

(4) $1\frac{1}{8}$

( )

7. What is the missing number in the following number pattern?

30 695, 30 795, 30 895, 30 995, _____

(1) 30 985

(2) 31 005

(3) 31 095

(4) 31 995

( )

8. $\frac{6}{15} = \frac{\square}{5}$

What is the missing number in the box?

(1) 1

(2) 2

(3) 3

(4) 4

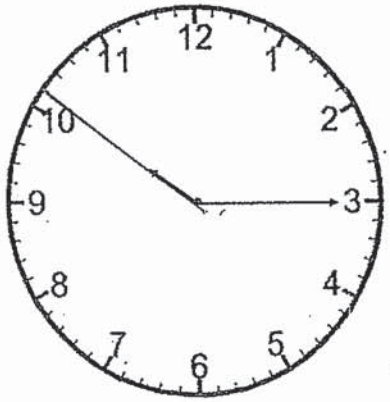
( )

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9. What is the quotient when 5609 is divided by 8?

(1) 1
(2) 70
(3) 71
(4) 701 ( )

10. Ravi went to bed the night before at the time shown below.
He slept for 7 hours and 30 minutes.
What time did he wake up this morning?



(1) 3.15 a.m.
(2) 3.45 a.m.
(3) 5.15 a.m.
(4) 5.45 a.m. ( )

11. Express $2\frac{3}{4}$ as an improper fraction.

(1) $\frac{10}{4}$
(2) $\frac{11}{4}$
(3) $\frac{12}{4}$
(4) $\frac{13}{4}$

( )

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12. Which of the following is **not** a factor of 27?

(1) 1

(2) 6

(3) 3

(4) 9

( )

13. Find the value of $\frac{5}{9} - \frac{1}{2}$

(1) $1\frac{1}{18}$

(2) $\frac{1}{18}$

(3) $\frac{6}{11}$

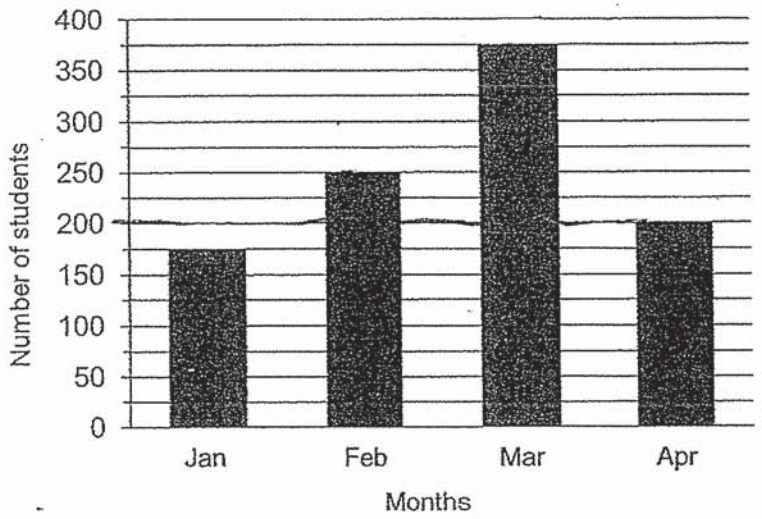
(4) $\frac{4}{7}$

( )

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Refer to the graph shown below to answer questions 14 and 15.

The bar graph shows the number of students who went to the Science Centre from January to April.



14. In which month did the **least** number of students go to the Science Centre?

(1) January

(2) February

(3) March

(4) April ( )

15. How many more students went to the Science Centre in March than in January?

(1) 200

(2) 375

(3) 400

(4) 550 ( )

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16. Jane had 2 ℓ of hot water in a flask. She used $\frac{1}{2}$ ℓ of the hot water to make tea.
Her brother used $\frac{3}{8}$ ℓ of the hot water to make coffee.
How much hot water was left in the flask?

(1) $\frac{1}{8}$ ℓ

(2) $1\frac{1}{8}$ ℓ

(3) $1\frac{5}{8}$ ℓ

(4) $1\frac{7}{8}$ ℓ ( )

17. Find the product of 64 and 605.

(1) 6050

(2) 38 420

(3) 38 720

(4) 39 920 ( )

18. Cheryl bought $\frac{7}{8}$ kg of blueberries.
However, $\frac{3}{5}$ kg of the blueberries were rotten and she had to throw them away.
Cheryl needed $\frac{1}{2}$ kg of blueberries to bake a blueberry pie.
How much more blueberries did Cheryl need to buy?

(1) $\frac{9}{40}$ kg

(2) $\frac{11}{40}$ kg

(3) $\frac{31}{40}$ kg

(4) $\frac{39}{40}$ kg ( )

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19. There were 42 students in a class. $\frac{3}{7}$ of them were boys and the rest were girls.

How many girls were there?

(1) 6

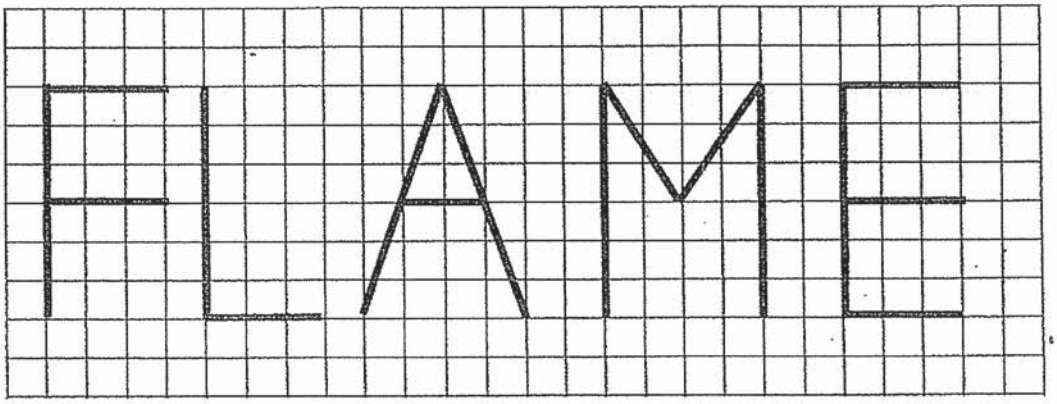
(2) 14

(3) 18

(4) 24

( )

20. Five letters F, L, A, M and E are shown on a square grid.



Which of the letters above have **no** line of symmetry?

(1) F and L

(2) L and A

(3) A and M

(4) M and E ( )

- End of Section A -

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Section B (20 × 2 marks)

Questions 21 to 40 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 units)

21. Use the digits 1, 2, 4, 5 and 7 to form the smallest even number.

5	2	4	1	7

Ans: _____

22. I have 5 ten-cent coins, 4 twenty-cent coins and 3 fifty-cent coins.
How much do I have altogether?

Ans: $ _____

23. Write down all the common factors of 24 and 54.

Ans: _____

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24. Arrange the following fractions from the smallest to the largest.

$$\frac{17}{6} \quad , \quad \frac{16}{7} \quad , \quad 2\frac{1}{3}$$

Ans: _____ , _____ , _____
smallest

25. A number is a multiple of 7.
One of its factors is 3.
It is between 50 and 70.
What is the number?

Ans: _____

26. David had 280 marbles. He had 90 more marbles than Peter.
How many marbles did they have altogether?

Ans: _____

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27. Mrs Lee had 326 cupcakes more than Mrs Wang.
Mrs Wang gave Mrs Lee another 158 cupcakes.
How many more cupcakes did Mrs Lee have than Mrs Wang in the end?

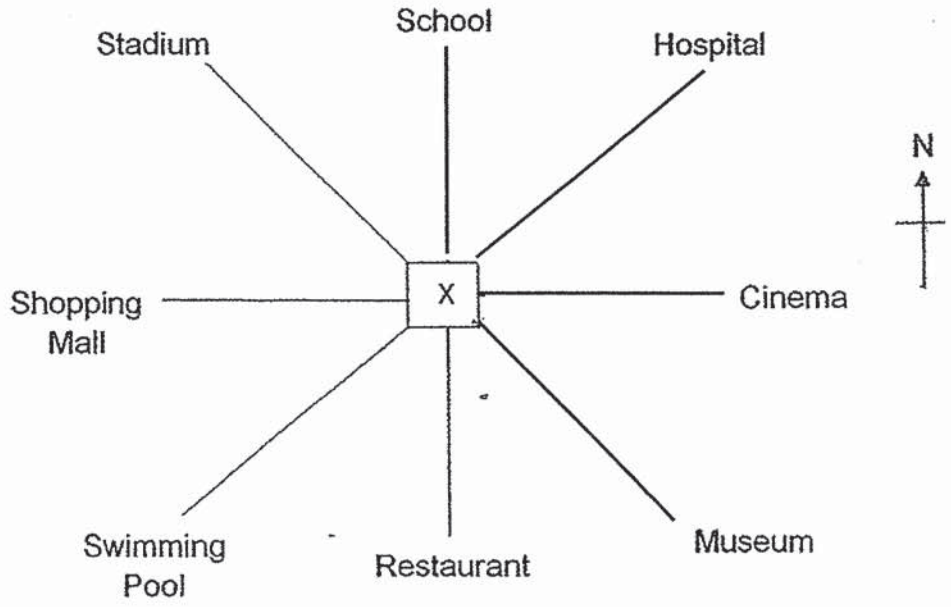
Ans: _____

28. Mrs Wong worked for 3 h 25 min in the morning shift.
She worked 35 more minutes in the afternoon shift than in the morning shift.
What was the total duration that Mrs Wong worked that day?
Express your answer in hours and minutes.

Ans: _____ h _____ min

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29. Samantha is standing at Point X facing South-East. Where will she be facing if she turns 135° anticlockwise?

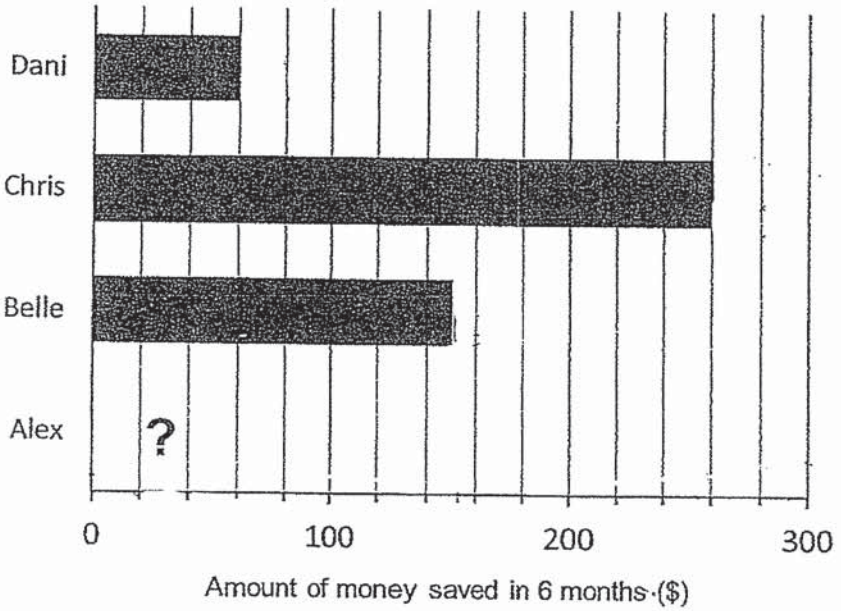


Ans: _____

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Refer to the graph shown below to answer questions 30 and 31.

The graph shows the amount of money saved by 4 children in 6 months.



30. Given that Dani saved an equal amount of money each month, how much did she save in 1 month?

Ans: \$ _____

31. Chris and Dani saved 2 times as much as money as Alex.
How much did Alex save?

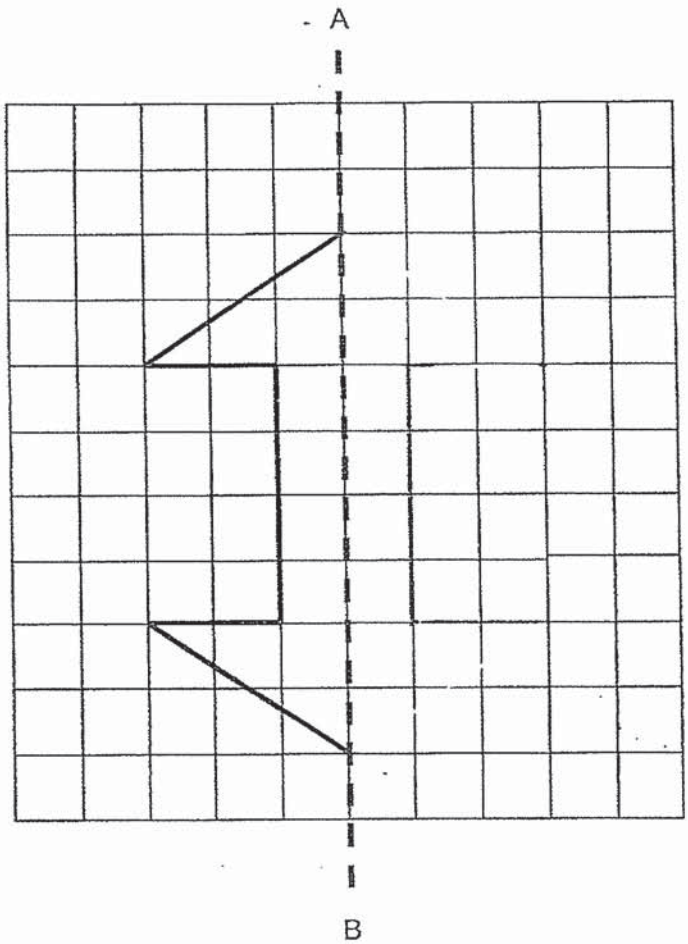
Ans: \$ _____

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32. Every day, James saves $2 and his sister saves $4 more than him.
How many days would they take to save a total of $192 altogether?

Ans: _____

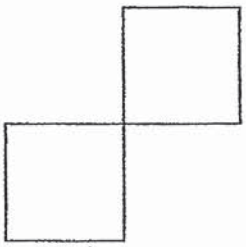
33. Complete the symmetric figure below with line AB as the line of symmetry.



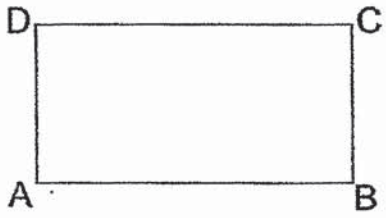
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34. Each statement is either true, false or not possible to tell from the information given. For each statement, put a tick (√) in the correct column.

Kelvin used an entire piece of string to form a figure made up of 2 identical squares.
Peter used the exact same piece of string to form a figure made up of 1 rectangle.



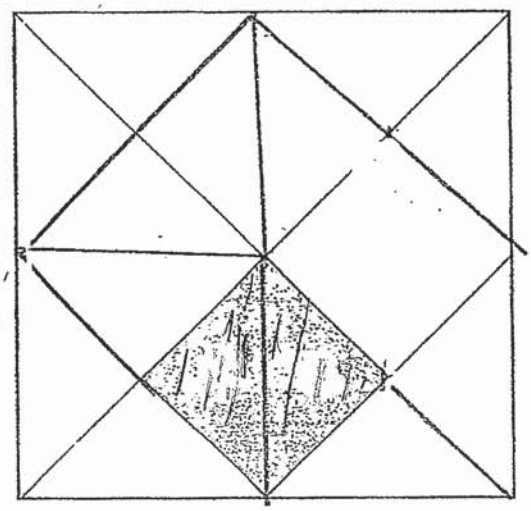
Kelvin's figure



Peter's figure

Statement	True	False	Not possible to tell
a) The perimeter of Kelvin's figure is the same as the perimeter of Peter's figure.			
b) The length AB of Peter's rectangle is twice its breadth AD.			

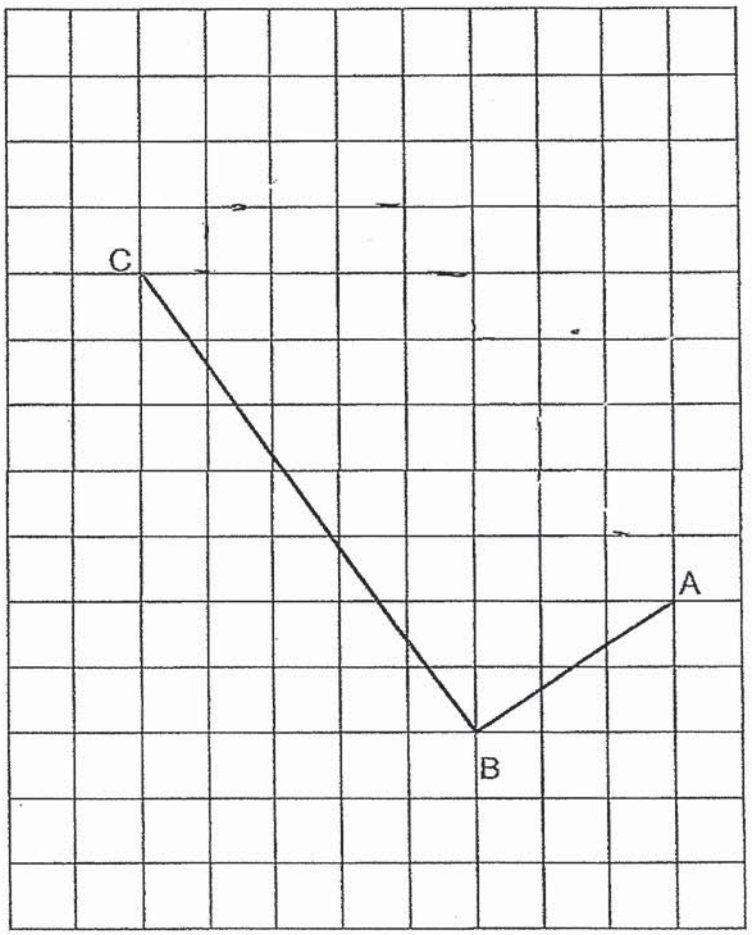
35. What fraction of the figure is shaded?
Express your answer in its simplest form.



Ans: _____

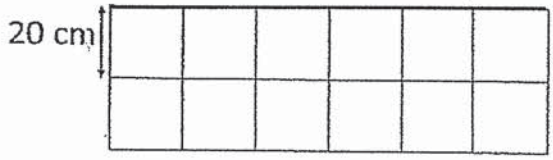
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36. AB and CB are two sides of a rectangle. Complete the rectangle ABCD by drawing the other two sides in the square grid below. Label the rectangle ABCD.



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37. Each square tile has a length of 20 cm. What is the area of the figure below?



Ans: _____ cm^2

38. Draw and label ∠CAB such that ∠CAB is 60°.

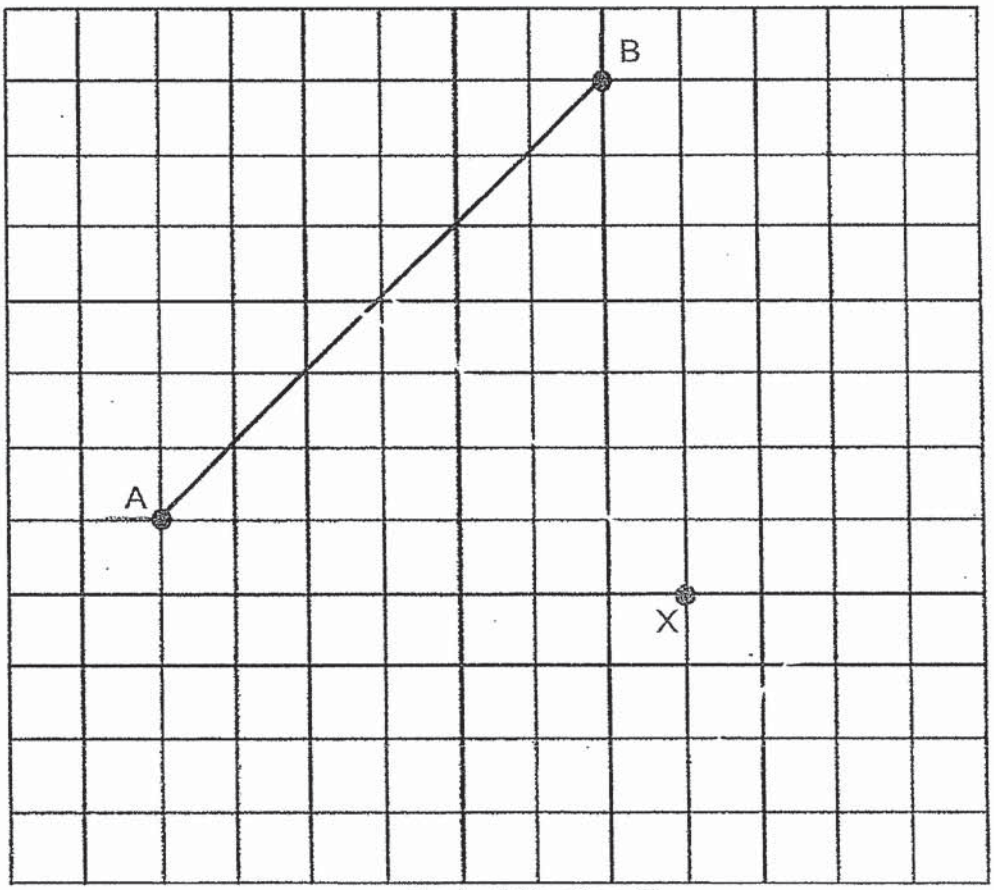
A _____ B

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39. Rod A is 3 times as long as Rod B. Rod B is 2 times as long as Rod C. The total length of all three rods is 540 cm. What is the length of Rod C?

Ans: _____ cm

40. The figure below shows a line AB and a point X. Draw a line perpendicular to AB passing through point X.



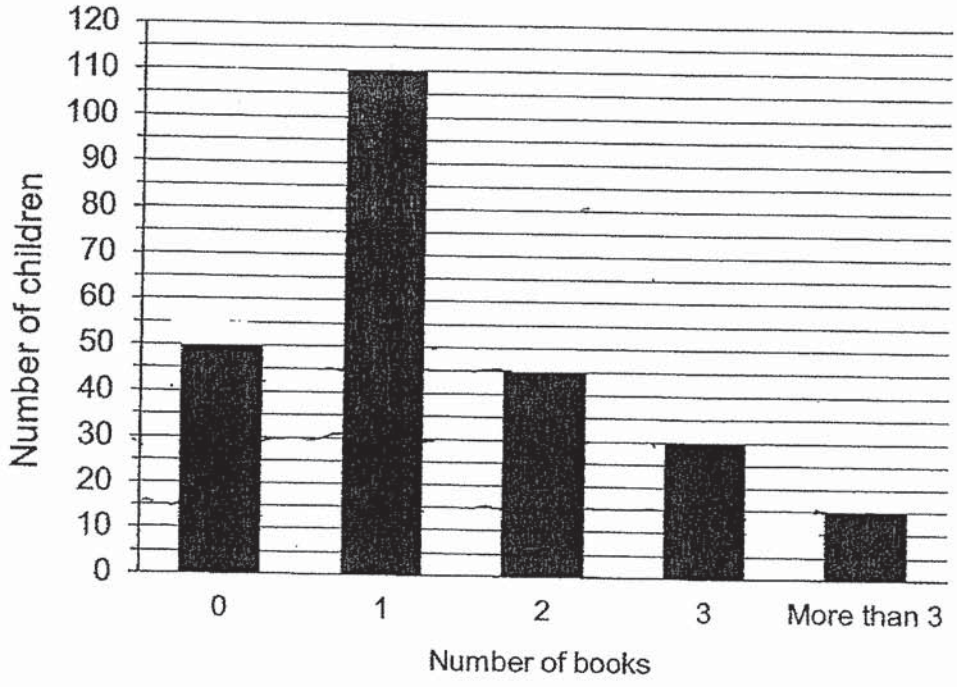
- End of Section B -

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Section C (20 marks)

For questions 41 to 46, 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.

41. The bar graph below shows the number of books read by the Primary 4 students in a week. How many children read **at least 1** book a week? [3 marks]



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42. Sam read for $\frac{1}{5}$ h. He spent $\frac{1}{4}$ h more on painting than on reading.

How much time did Sam spend on reading and painting?

Express your answer in its simplest form. [3 marks]

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43. Alice had an equal amount of apple juice and orange juice at first.
She drank 400 ml of apple juice.
In the end, she had 3 times as much orange juice as apple juice.
How much apple juice did she have at first?
Express your answer in millilitres. [3 marks]

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44. Mr Samy had 240 boxes of mangoes.
In each box, there were 36 mangoes.
He donated 48 boxes of mangoes to charity.

a) How many mangoes did he have left? [2 marks]

b) 4 women bought all the remaining mangoes from Mr San
They bought an equal number of mangoes.
How many mangoes did each woman buy? [2 marks]

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45. A shop owner bought some T-shirts and purses.
Each T-shirt cost $8 and each purse cost $5
She bought a total of 28 T-shirts and purses.
She spent $161 altogether.
How many T-shirts did she buy? [3 marks]

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46. The pattern below is made up of identical squares and circles.

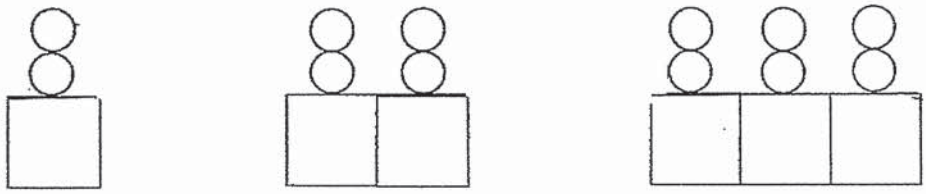


Figure 1 Figure 2 Figure 3

(a) How many squares are there in Figure 4? [1 mark]

(b) How many circles are there in Figure 6? [1 mark]

(c) Which figure has a total of 72 squares and circles? [2 marks]

End of Paper

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ANSWER KEY

YEAR : 2019
LEVEL : PRIMARY 4
SCHOOL : NAN HUA PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1

SECTION A

Q1	2	Q2	1	Q3	2	Q4	3	Q5	3
Q6	2	Q7	3	Q8	2	Q9	4	Q10	4
Q11	2	Q12	2	Q13	2	Q14	1	Q15	1
Q16	2	Q17	3	Q18	1	Q19	4	Q20	1

SECTION B

Q21) 12574

Q22) $2.80

Q23) 1, 2, 3, 6

Q24) $\frac{16}{7}, 2\frac{1}{3}, \frac{17}{6}$

Q25) 63

Q26) 470

Q27) 642

Q28) 7h 25min

Q29) school

Q30) $10

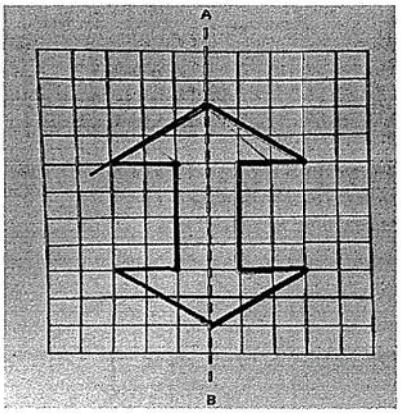
Q31) $160

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Q32) 24

Q33)

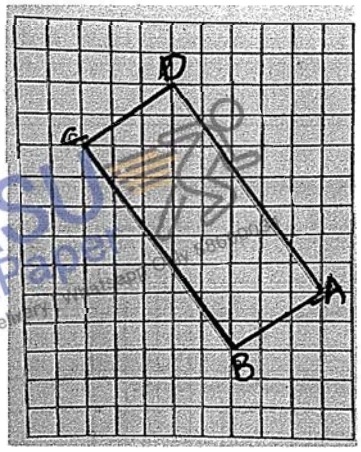


Q34)

Statement	True	False	Not possible to tell
a) The perimeter of Kelvin's figure is the same as the perimeter of Peter's figure.	☐		
b) The length AB of Peter's rectangle is twice its breath AD.			☐

Q35) $\frac{1}{8}$

Q36)

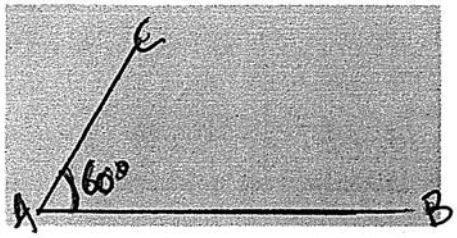


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Q37) 4800cm^2

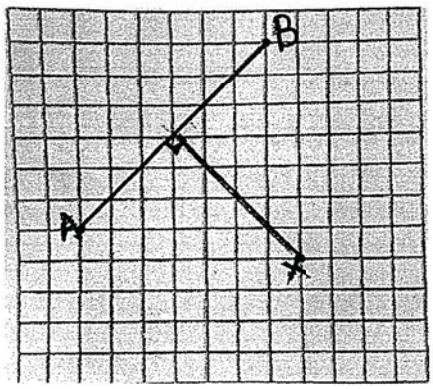
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Q38)



Q39) 60cm

Q40)



SECTION C

Q41) 110 + 45 + 30 + 15 = 200 children

Q42) $\frac{1}{5} + \frac{1}{4} = \frac{9}{20}$

$\frac{9}{20} + \frac{1}{5} = \frac{13}{20}$

ANS: Sam spent $\frac{13}{20}$ **h on reading and painting.**

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Q43) 400 ÷ 2 = 200

200 x 3 = 600ml

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Q44a) 240 x 36 = 8640

48 x 36 = 1728

8640 – 1728 = 6912 mangoes

Q44b) 6912 ÷ 4 = 1728 mangoes

Q45) 28 x 5 = 140

161 – 140 = 21

8 – 5 = 3

21 ÷ 3 = 7 T-shirts

Q46a) 3 + 1 = 4 squares

Q46b) 6 x 2 = 12 circles

Q46c) 72 ÷ 3 = 24

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END

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