NAN HUA PRIMARY SCHOOL

MID YEAR EXAMINATION – 2022

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 4M _____

Date : 12 May 2022

Duration: 1 h 45 min

Parents' Signature: _____

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Section A: Multiple Choice Questions

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 your answer on the Optical Answer Sheet.

(40 marks)

1. Complete the number pattern.

   80 259 , 80 159 , _____ , 79 959 , 79 859

   (1) 79 059

   (2) 79 159

   (3) 80 059

   (4) 80 959

2. 72 457 rounded to the nearest hundred is _____.

   (1) 72 000

   (2) 72 400

   (3) 72 460

   (4) 72 500

3. Which of the following is **not** a factor of 36?

   (1) 1

   (2) 6

   (3) 3

   (4) 8

4. The first common multiple of 3 and 9 is _____.

   (1) 6

   (2) 9

   (3) 18

   (4) 27

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5. $\frac{\square}{9} = \frac{8}{12}$

What is the missing number in the box?

(1) 5

(2) 6

(3) 3

(4) 8

6. Which of the following is the same as 7030 mℓ?

(1) 7 ℓ 3 mℓ

(2) 7 ℓ 30 mℓ

(3) 70 ℓ 3 mℓ

(4) 70 ℓ 30 mℓ

7. Which of the following is **not** an equivalent fraction of $\frac{2}{5}$?

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

(2) $\frac{6}{15}$

(3) $\frac{8}{25}$

(4) $\frac{12}{30}$

8. A plane left Singapore at 11.15 p.m. on Tuesday. It arrived in Taiwan at 3.35 a.m. on Wednesday. How long was the flight from Singapore to Taiwan?

(1) 16 h 20 min

(2) 7 h 40 min

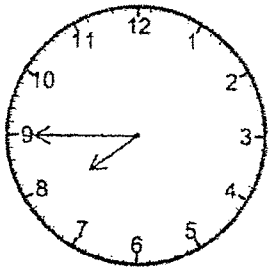
(3) 4 h 20 min

(4) 3 h 20 min

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9. A shop opened in the morning at the time shown below.
It was open for 4 h 25 min. What time did the shop close?



(1) 11.10 a.m.

(2) 11.45 a.m.

(3) 12.10 p.m.

(4) 1.10 p.m.

10. Express $7\frac{2}{9}$ as an improper fraction.

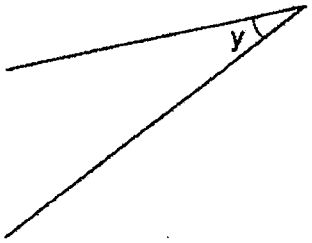
(1) $\frac{14}{9}$

(2) $\frac{61}{9}$

(3) $\frac{63}{9}$

(4) $\frac{65}{9}$

11. Measure and write down the size of $\angle y$.



(1) 25°

(2) 35°

(3) 155°

(4) 165°

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12.

Dino's Pizza Hut	
Regular pizza	$12.50
Small pizza	$7.85
Spaghetti	$6
Garlic bread	$1.95

Mr. Lee bought one small pizza and one garlic bread. He paid the cashier $50. How much change did Mr. Lee get back?

(1) $9.80

(2) $14.45

(3) $35.55

(4) $40.20

13. Find the value of $\frac{9}{10} - \frac{3}{5}$.

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

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

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

(4) $1\frac{1}{5}$

14. Which one of the following figures has only 1 line of symmetry?

U 0 N R

(1) U

(2) 0

(3) N

(4) R

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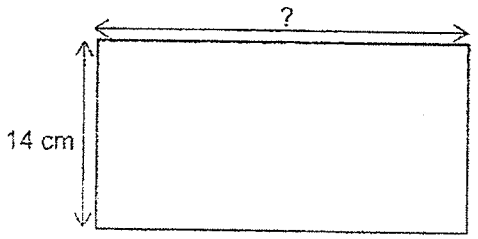
15. The perimeter of the rectangle is 70 cm. Find its length.

(1) 5 cm

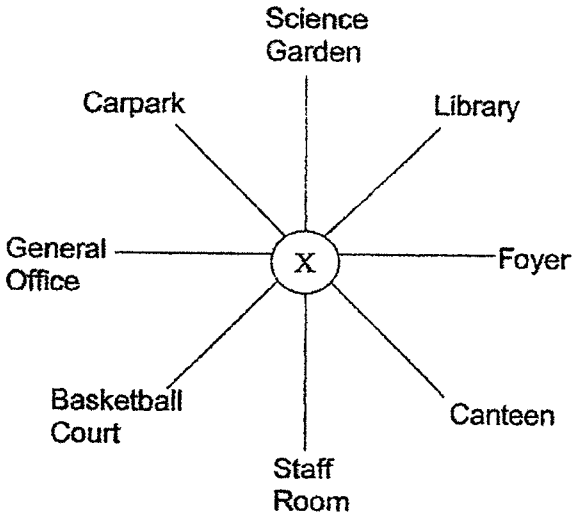
(2) 21 cm

(3) 28 cm

(4) 42 cm



16. Jerry stood at point X. He made a $\frac{3}{8}$ - turn in the anticlockwise direction and ended up facing the Canteen. Which direction was he facing at first?



(1) Science Garden

(2) General Office

(3) Basketball Court

(4) Foyer

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17. In a carnival, Mrs Chan sold 2460 Milo packets. She sold 3706 Milo packets and Vitasoy packets altogether. She sold 214 less Vitasoy packets than Lemon Tea packets. How many Lemon Tea packets did Mrs Chan sell?

(1) 1246

(2) 1460

(3) 1960

(4) 2674

18. Jane gave $\frac{4}{9}$ of the stickers she collected to her classmate. She had 180 stickers left. How many stickers did she have at first?

(1) 144

(2) 225

(3) 324

(4) 405

19. Kerry, Matt and John ran a total distance of 1 km. Kerry ran $\frac{5}{8}$ km. Matt ran $\frac{1}{3}$ km less than Kerry did. How far did John run?

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

(2) $\frac{11}{12}$ km

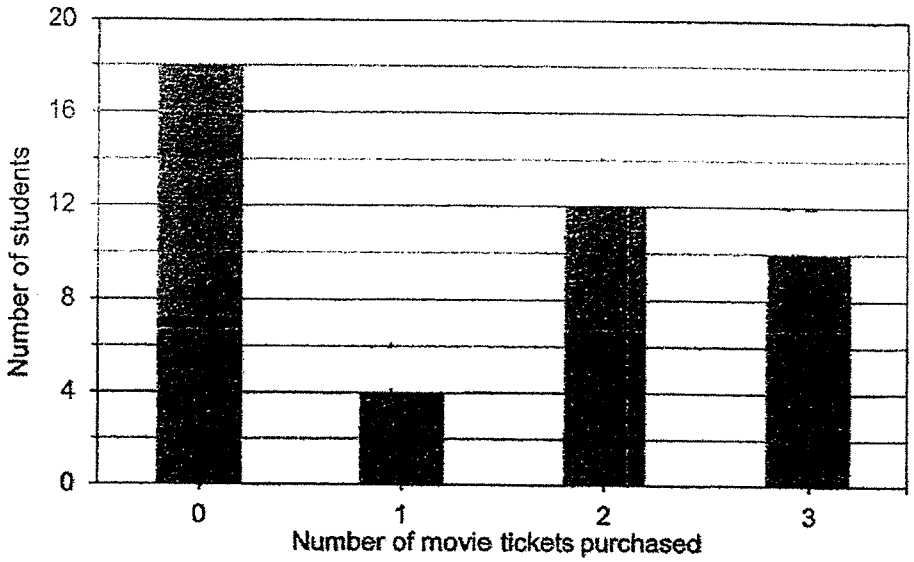
(3) $\frac{7}{24}$ km

(4) $\frac{23}{24}$ km

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20. The bar graph below shows the number of movie tickets purchased by a group of students.



What is the total number of movie tickets purchased?

(1) 26

(2) 44

(3) 58

(4) 76

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Section B: Open-ended Questions

Questions **21** to **40** 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. (40 marks)

21. Use the digits below to form the greatest 4-digit number which is a multiple of 5.

3	0	8	5

Ans: _____

22. What is the remainder when 9463 is divided by 6?

Ans: _____

23. Find the product of 598 and 37.

Ans: _____

24. List all the common factors of 18 and 30.

Ans: _____

25. Express $\frac{16}{48}$ in its simplest form.

Ans: _____

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26. Arrange the following fractions from the smallest to the greatest.

$$\frac{7}{4} \quad , \quad 1\frac{5}{6} \quad , \quad \frac{5}{8}$$

_____ , _____ , _____
(smallest) *(greatest)*

27. I am a factor of 48. When 5 is added to me, I become a multiple of 7 that is greater than 10. What number am I?

Ans: [ ]

28. Peter has less than 40 sweets. If he puts them into bags of 7, he has a remainder of 1 sweet. If he puts them into bags of 9, he has no leftover. How many sweets does he have?

Ans: [ ]

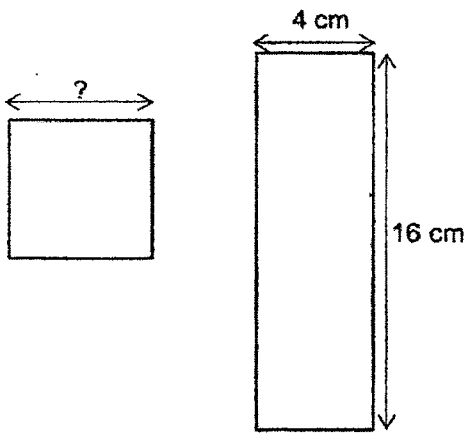
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29. Jaymie had 48 apples, pears, and mangoes. $\frac{3}{8}$ of the fruits were apples. She had 4 more pears than mangoes. How many mangoes did Jaymie have?

Ans: ☐

30. The area of the square is the same as the area of the rectangle. What is the length of the square?



Ans: ☐ cm

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31. Edwin had some flour. He gave his sister $\frac{1}{5}$ kg of flour. He gave his mother $\frac{3}{4}$ kg of flour. He needed 1 kg of flour to bake a cake but he did not have enough flour left. He then bought another $\frac{7}{10}$ kg of flour. How much flour did Edwin have at first? Express your answer as a mixed number in the simplest form.

Ans: _____ kg

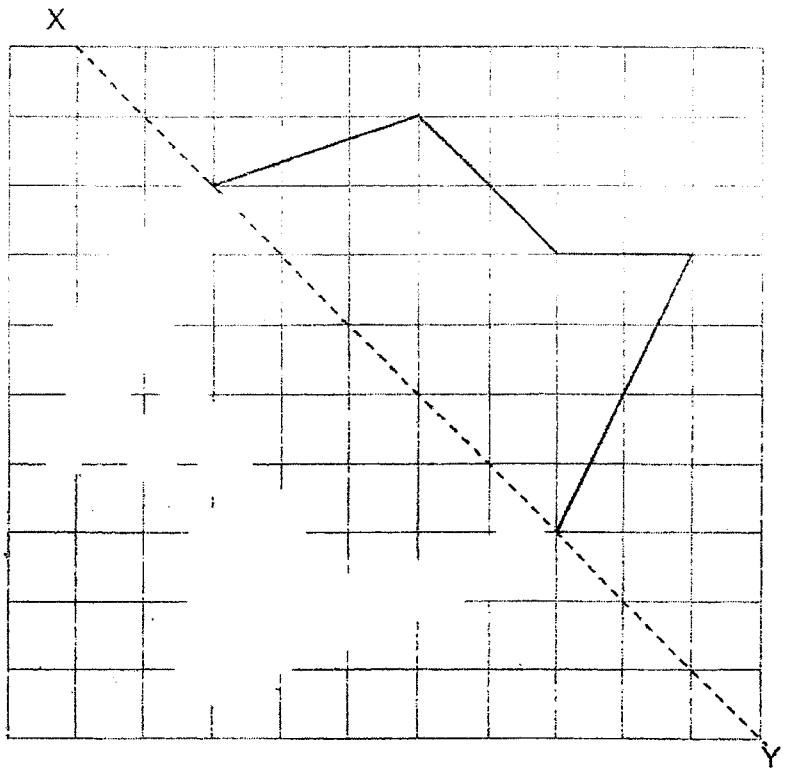
32. Draw and label ∠ABC such that ∠ABC is 53°.

A _____ B

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



34. Figure A: I have 2 pairs of perpendicular lines.
Figure B: I have 4 equal sides and 2 pairs of parallel lines.

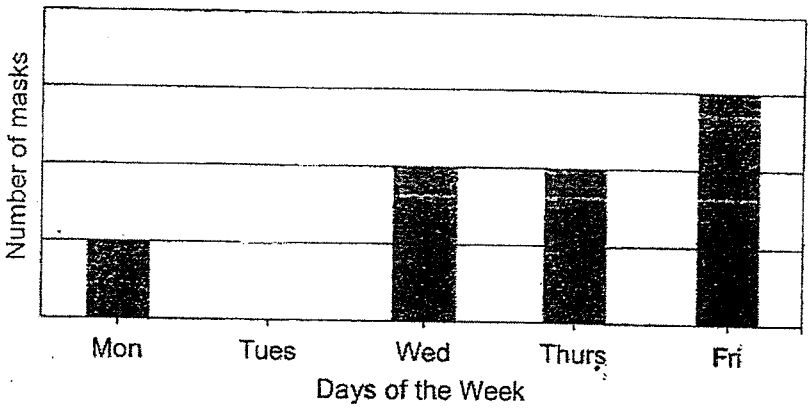
Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

	Properties	True	False	Not possible to tell
(a)	Figure A is a rectangle.			
(b)	Figure B is a square.			

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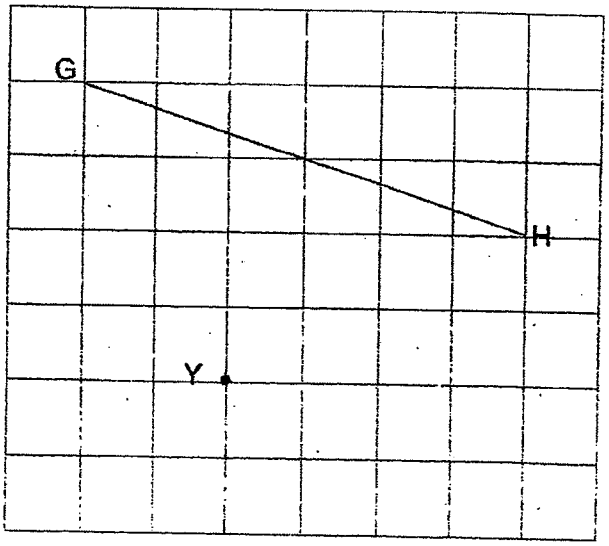
35. The bar graph below shows the number of masks the Tan family used over 5 days.



The Tan family used a total of 72 masks over the 5 days. The number of masks used on Tuesday was 4 times the number of masks used on Monday. How many masks did the Tan family use on Monday?

Ans: _____

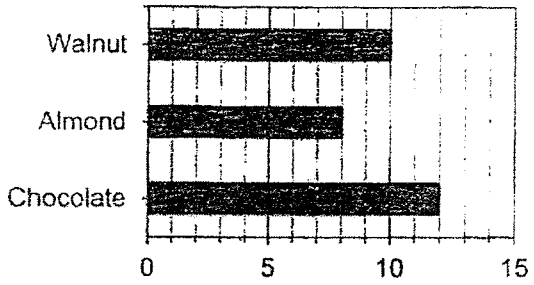
36. In the grid, draw a line which is perpendicular to line GH, passing through point Y.



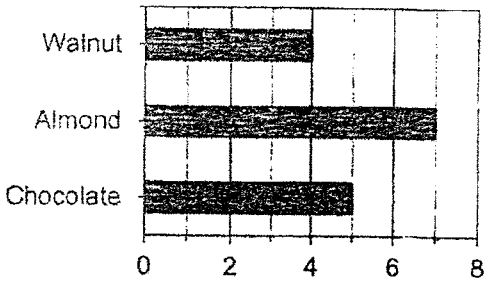
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Ralph baked some cookies to sell. Figure 1 shows the number of cookies that was sold. Figure 2 shows the number of cookies left unsold. Study the graph carefully and answer questions 37 to 39.



Number of cookies sold
(Figure 1)



Number of cookies left unsold
(Figure 2)

37. a) What was the number of chocolate cookies sold?

Ans:

b) What was the number of chocolate cookies left unsold?

Ans:

38. What was the difference in the number of almond and walnut cookies Ralph baked?

Ans:

39. The price of each type of cookies is given below. One almond cookie costs 25¢ more than one walnut cookie. John bought one chocolate and one almond cookie and received $8.15 change. How much did John pay Ralph?

Type of cookie	Price per cookie
Chocolate	70 ¢
Almond	?
Walnut	90 ¢

Ans: $

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40. Mary has a 44-cm ribbon. She cuts it into 3-cm and 5-cm strips and got a total of 12 strips. How many 3-cm strips were there?

Ans: [ ]

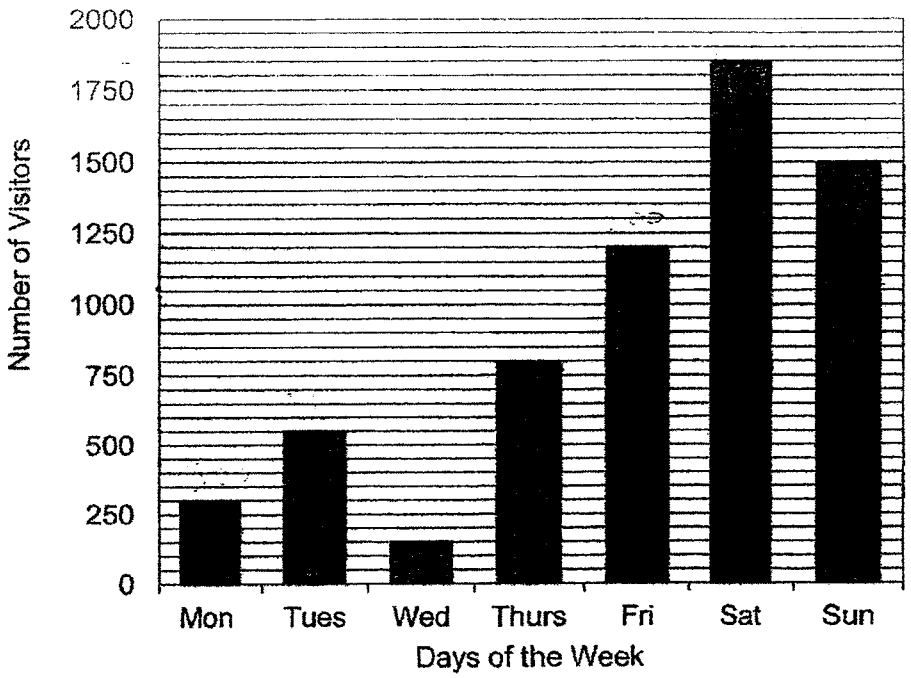
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Section C

For each of the following questions, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of question or part-question. (20 marks)

41. The bar graph shows the number of visitors to the Singapore Arts Museum in a week.



(a) What was the total number of visitors to the museum on Friday and Saturday?

(b) The entrance fee for each visitor is $7. What was the total amount of money collected on Friday and Saturday?

Ans: (a) _____ [1m]

(b) _____ [2m]

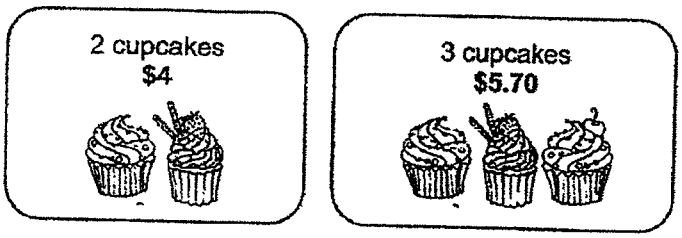
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42. Beaker A holds $\frac{3}{4}\ \ell$ of water. It holds $\frac{1}{5}\ \ell$ more water than Beaker B. Beaker C holds $\frac{5}{8}\ \ell$ more water than Beaker B. How much water does Beaker C hold? (Express your answer as a mixed number or fraction in its simplest form)

Ans: _____ [3m]

43. In a bakery, cupcakes are sold only in boxes. A box of two cupcakes costs $4 and a box of three cupcakes costs $5.70. Sarah wants to buy 8 cupcakes. What is the least amount of money that Sarah will need to spend?



Ans: _____ [3m]

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44. The mass of one apple and one mango is 245 g. The mass of one apple and one watermelon is 710 g. The mass of a watermelon is 4 times the mass of a mango. What is the mass of one watermelon?

Ans: _____ [3m]

45. A novel had 400 pages. Peter read 14 pages each day for 12 days. On the 13th day, he read 106 pages. Peter read an equal number of pages daily for the remaining 7 days. How many pages did he read in each of the remaining 7 days?

Ans: _____ [4m]

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46. A box contained red beads and white beads. At first, the number of white beads was 3 times the number of red beads. After $\frac{1}{2}$ of the white beads were used and $\frac{1}{2}$ of the red beads were used, there was 68 beads left. How many beads were there altogether in the box at first?

Ans: _____ [4m]

End of paper ☺
Have you checked?

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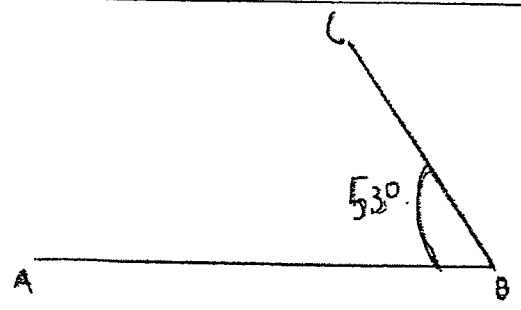
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YEAR : 2022
LEVEL : PRIMARY 4
SCHOOL : NAN HUA PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM. : MID-YEAR EXAMINATION

(BOOKLET A)

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

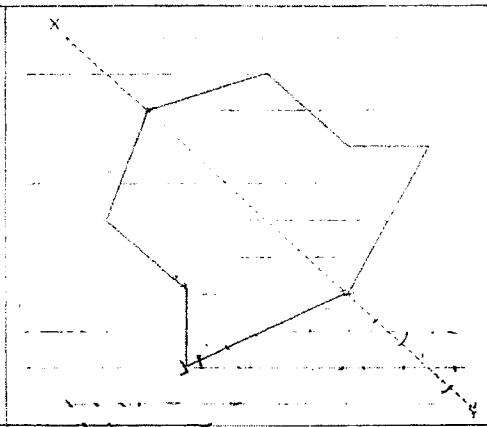
(BOOKLET B)

Q21	8530
Q22	1
Q23	22126
Q24	6
Q25	1/3
Q26	$\frac{5}{8}, \frac{7}{4}, 1\frac{5}{6}$
Q27	16
Q28	36
Q29	13
Q30	8cm
Q31	$1\text{kg} - \frac{7}{10}\text{kg} = \frac{3}{10}$ $\frac{3}{10}\text{kg} + \frac{1}{5} + \frac{3}{4}$ $= \frac{6}{20} + \frac{4}{20} + \frac{5}{20}$ $= \frac{25}{20}$ $= 1\frac{1}{4}\text{kg}$
Q32	

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Q33



Q34

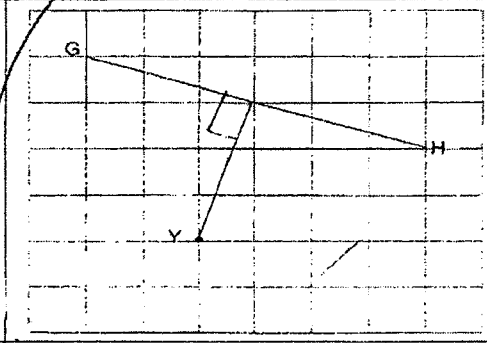
a)False

b)Not possible to tell

Q35

8

Q36



Q37

a)12

b)5

Q38

Walnut = 10 + 4 = 14

Almond 8 + 7 = 15

15 – 14 = 1

Q39

Walnut + 25 = Almond

25 = 1.15

70 + 1.15 = $1.85

Q40

3cm	total	5cm	total	total
7	7 x 3 = 21	5	5 x 5 = 25	21 + 26 = 46
8	8 x 3 = 24	4	5 x 4 = 20	24 + 20 = 44

Ans: 8

Q41

a)1850 + 1200 = 3050

b)3050 x 7 = $21 350

Q42

$\frac{3}{4} - \frac{1}{5} = \frac{15}{20} - \frac{4}{20}$

$= \frac{11}{20}$

$\frac{11}{20} + \frac{5}{8} = \frac{22}{40} + \frac{25}{40}$

$= \frac{47}{40} = 1\frac{7}{40}\ell$ $= 1\frac{7}{10}\ell$

Q43

$5.70 x 2 = $11.40

$11.40 + $4 = $15.40

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Q44	710g – 245g = 465g 465g ÷ 3 = 155g 155g x 4 = 620g
Q45	14 x 12 = 168 168 + 106 = 274 400 – 274 = 126 126 ÷ 7 = 18
Q46	2u = 68 68 ÷ 2 = 34 34 x 4 = 136

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