NAN HUA PRIMARY SCHOOL

END OF YEAR EXAMINATION 2023

PRIMARY FIVE

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. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. The use of calculators is **NOT** allowed.

Name : _____ ( )

Form Class : 5_____ **Teaching Group: 5M**_____

Date : 26 October 2023 **Parent's Signature :**_____

This booklet consists of 8 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) and shade your answer on the Optical Answer Sheet.

(20 marks)

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1 Which of the following is eighty thousand and two hundred in numerals?

(1) 8200

(2) 80 200

(3) 800 200

(4) 820 000

2 Express $1\frac{1}{50}$ as a decimal.

(1) 1.02

(2) 1.15

(3) 1.2

(4) 1.5

3 Mr Tan takes 8 seconds to type 9 words. At the same rate, how long will he take to type 27 words?

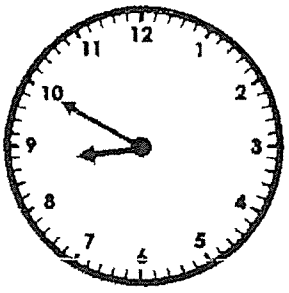
(1) 16 seconds

(2) 24 seconds

(3) 26 seconds

(4) 32 seconds

4 What is 15 minutes after the time shown on the clock?



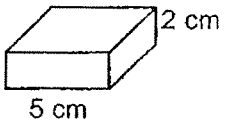
(1) 20.35

(2) 20 50

(3) 21 05

(4) 22 58

5 A solid cuboid of height 2 cm has a square base of side 5 cm. What is its volume?



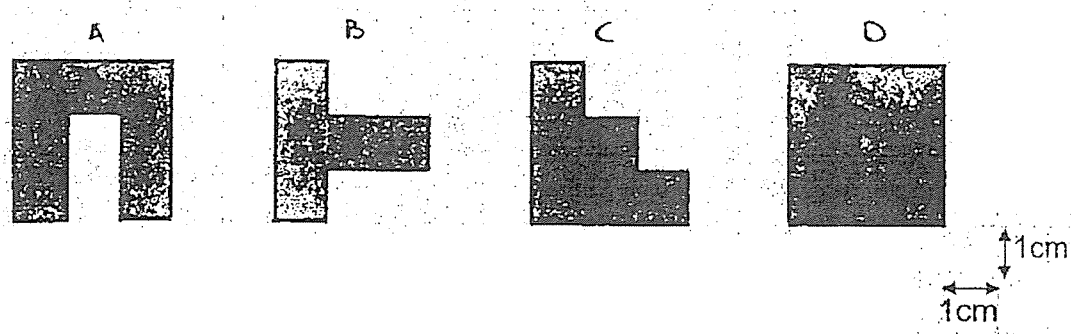
(1) 10 cm^3

(2) 20 cm^3

(3) 50 cm^3

(4) 100 cm^3

6 Which figure has the largest perimeter?



(1) A

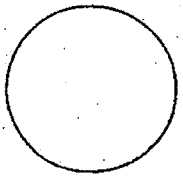
(2) B

(3) C

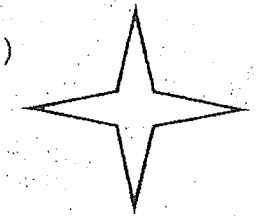
(4) D

7 Which figure below has only one line of symmetry?

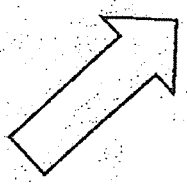
(1)



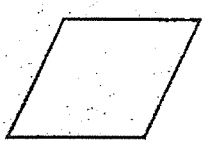
(2)



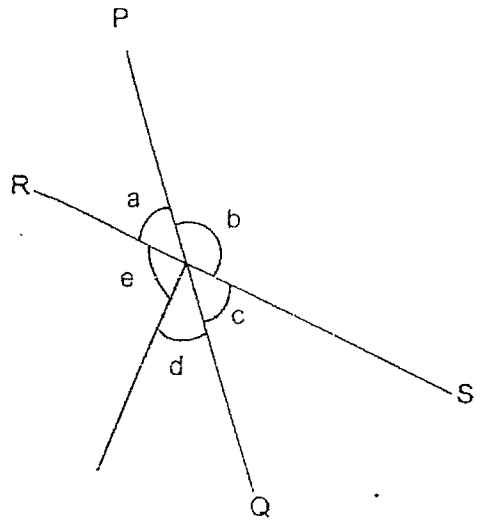
(3)



(4)



8 PQ and RS are straight lines. Which of the following is true?



(1) $\angle a = \angle c$

(2) $\angle b = \angle e$

(3) $\angle a + \angle c = 180°$

(4) $\angle a + \angle b + \angle c = 180°$

9 A number is 24 000 when rounded to the nearest hundred. What is the number?

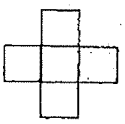
(1) 23 099

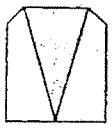
(2) 23 940

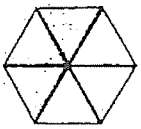
(3) 24 009

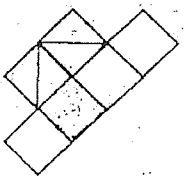
(4) 24 050

10 Which of the following shows $\frac{1}{3}$ of the figure shaded?

(1) 

(2) 

(3) 

(4) 

11 There are 40 balls in a sports store. 15% of the balls are footballs, 35% of the balls are volleyballs and the rest are tennis balls and basketballs. Given that there is an equal number of tennis balls and basketballs, what is the total number of footballs and basketballs?

(1) 10

(2) 16

(3) 20

(4) 26

12 The average mass of 3 adults is 55 kg. Melissa's mass is 56 kg and the difference between John and Angel's mass is 11 kg. What could possibly be John's mass?

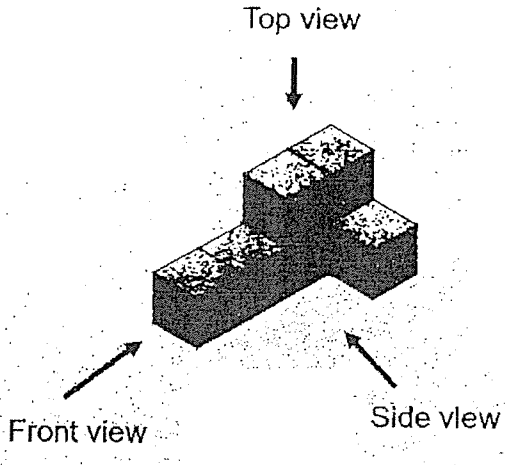
(1) 54.5 kg

(2) 60 kg

(3) 98 kg

(4) 100 kg

13 Some cubes are used to make the following solid.



What is the maximum number of cubes that can be added to the above solid if the top view and front view remain unchanged?

(1) 1

(2) 2

(3) 3

(4) 5

14 A piece of wire was used to form a square of side 0.2 m. Another piece of wire was used to form an equilateral triangle of side 0.24 m. What is the total length of the two pieces of wire?

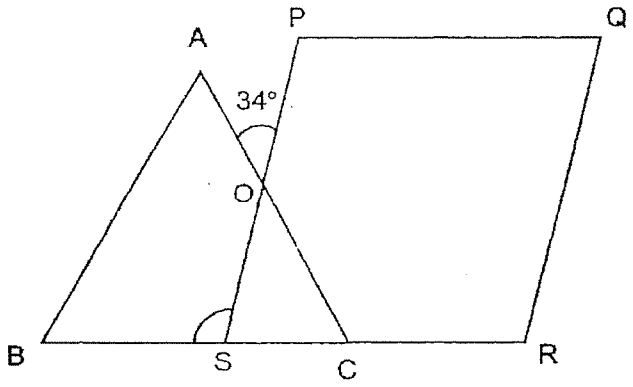
(1) 0.08 m

(2) 0.44 m

(3) 0.76 m

(4) 1.52 m

15 ABC is an equilateral triangle and PQRS is a rhombus. BSR is a straight line. Find ∠BSP.



(1) 34°

(2) 86°

(3) 94°

(4) 146°

NAN HUA PRIMARY SCHOOL

END OF YEAR EXAMINATION 2023

PRIMARY FIVE

MATHEMATICS

PAPER 1

(BOOKLET B)

Total Time for Booklets A and B: 1 hour

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. Use dark blue or black ball point pen to write your answers in the space provided for each question.
6. Do not use correction tape/ fluid/ highlighter.
7. The use of calculators is **NOT** allowed.

Marks Obtained

Section		Maximum Marks	Actual Marks
Paper 1	Booklet A	20	
	Booklet B	25	
Paper 2		55	
Total		100	

Name : _____ ( )

Form Class : 5_____ **Teaching Group:** 5M_____

Date : 26 October 2023 **Parent's Signature:**_____

This booklet consists of 9 printed pages and 1 blank page.

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)

16 Find the value of $2.4 \div 200$.

Ans : _____

17 What is 18% of 600?

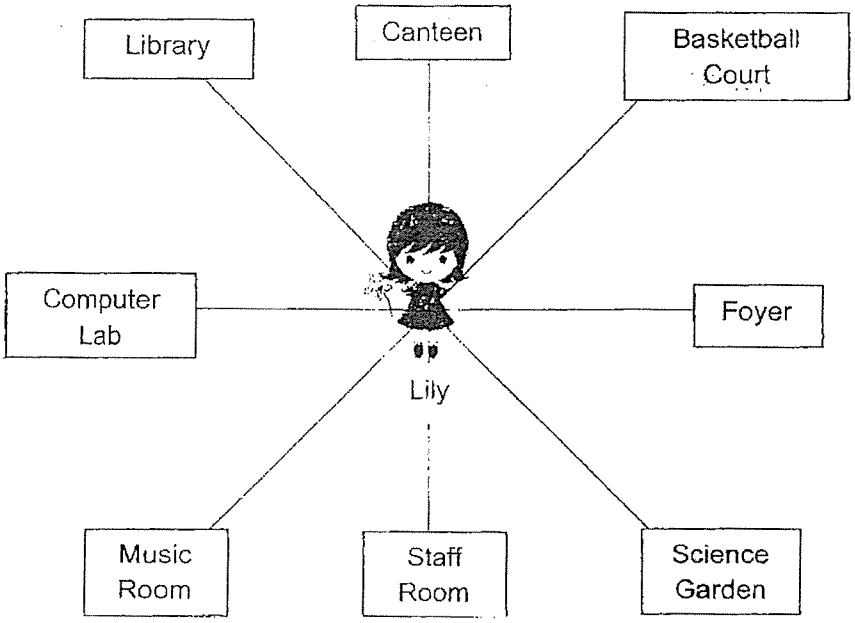
Ans: _____

18 Find the value of $\frac{4}{7} \times \frac{49}{16}$. Express your answer as a mixed number in the simplest form.

Ans: _____

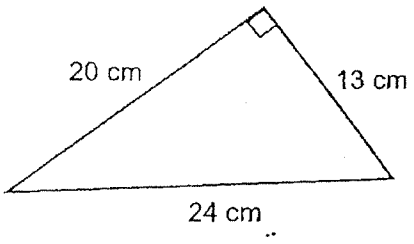
Please do not write in the margin

19 Lily is facing the staff room. First, she makes a $\frac{1}{4}$ - turn to her right. Then, she makes a 225° anticlockwise turn. Where is she facing now?



Ans: _____

20 The figure shows a right-angled triangle. Find the area of the triangle.



Ans : _____ cm^2

Please do not write in the margin

(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)

21 **(a)** What is the value of $40 - (20 - 4) \div 4 \times 3$?

Ans : (a)_____

(b) Find the largest multiple of 8 that is smaller than 60.

Ans : (b)_____

Please do not write in the margin

22 **(a)** Find the value of $2 - \frac{2}{3} - \frac{1}{6}$.

Ans : (a)_____

(b) Find the value of 7.68 + 3.4.

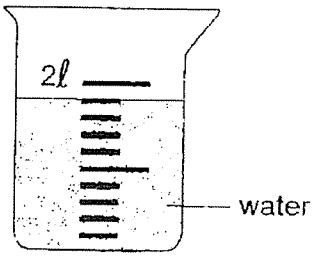
Ans : (b)_____

23 **(a)** Arrange the following from the heaviest to the lightest.

3.055 kg 3 kg 250 g $3\frac{1}{8}$ kg

Ans: (a) _____ (Heaviest), _____, _____ (Lightest)

(b) How much water (in mℓ) is in the jug?



Ans : (b)_____

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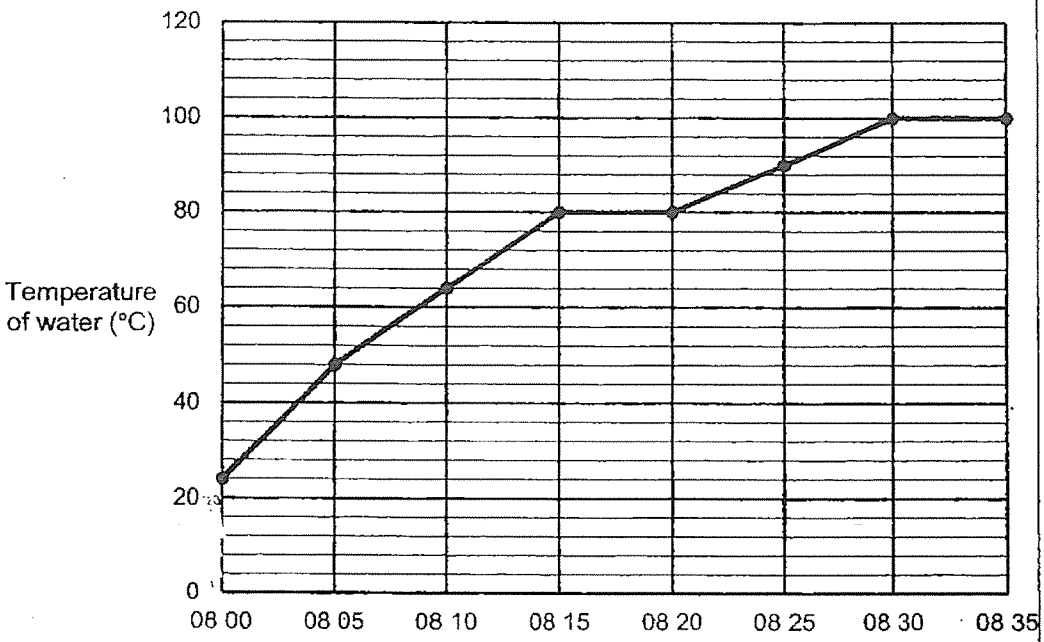
24 The graph shows the temperature of water in a pot from 08 00 to 08 35.



(a) What was the temperature of the water at 08 10?

Ans : (a)_____ °C

(b) For how many minutes was the temperature of water 80°C and above?

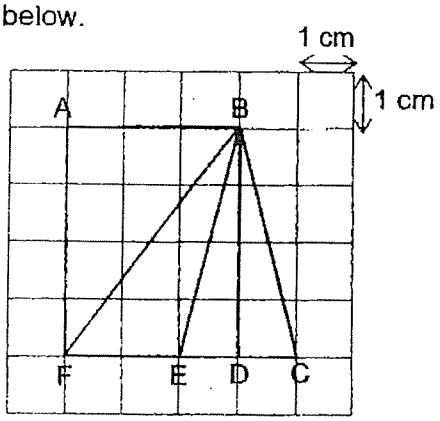
Ans : (b)_____ min

Please do not write in the margin

25 Sumin used 205 cm of string to make 5 bracelets. Find the length of string that she would use to make 16 such bracelets. Give your answer in metres.

Ans : _____ m

26 Look at the figure below.



(a) What is the area of triangle BEF?

Ans : (a)_____ cm^2

(b) Which triangle has the same area as triangle BEF?

Ans : (b) Δ_____

Please do not write in the margin

(Go on to the next page)

27 The average age of a club of 10 members is 35 years old. A member of age 53 left the club. What is the average age of the present club?

Ans : _____

28 Mdm Leong had some money. She spent $80 and had $45 left. What percentage of her money did she spent?

Ans : _____ %

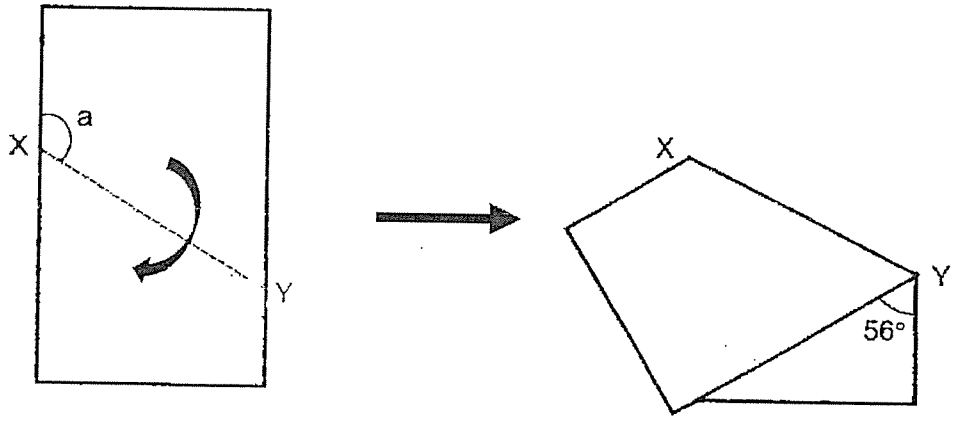
Please do not write in the margin

29 One small bag contained 4 cookies and one big bag contained 6 cookies. There were 30 more small bags than big bags. There were a total of 2360 cookies. How many big bags were there?

Ans : _____

30 In the figure below, the rectangle is folded along the dotted line.

Find ∠a.



Ans : _____ °

Please do not write in the margin

End of Paper

NAN HUA PRIMARY SCHOOL

END OF YEAR EXAMINATION 2023

PRIMARY FIVE

MATHEMATICS

Paper 2

Time : 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

Section	Maximum Marks	Actual Marks
Paper 2	55	

Name : _____ ( )

Form Class : 5_____ **Teaching Group: 5M**_____

Date : 26 October 2023 **Parent's Signature:**_____

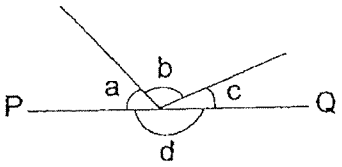
This booklet consists of 15 printed pages and 1 blank page.

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

1 Baker Tan had 3262 chocolate and strawberry muffins. He sold $\frac{4}{5}$ of the chocolate muffins and $\frac{3}{4}$ of the strawberry muffins. There were 736 muffins left. How many chocolate muffins did he sell?

Ans: _____

2 PQ is a straight line. The ratio of angles a : b : c is 2 : 6 : 1. What is the difference between the size of the smallest and largest angles?



Ans: _____ °

Please do not write in the margin.

3 The ratio of the number of red marbles to the number of blue marbles to the number of green marbles in a box was 6 : 5 : 2. There were 42 more blue marbles than green marbles. How many marbles were there in the box in total?

Ans: _____

4 The table below shows the postage rates for sending packages to Indonesia.

Mass step not over	Postage
20 g	60 cents
50 g	80 cents
100 g	$1.20
Every additional 100 g	$1.20

Ali sent two packages with a mass of 50 g and 370 g respectively. How much postage did Ali pay altogether?

Ans: $ _____

Please do not write in the margin.

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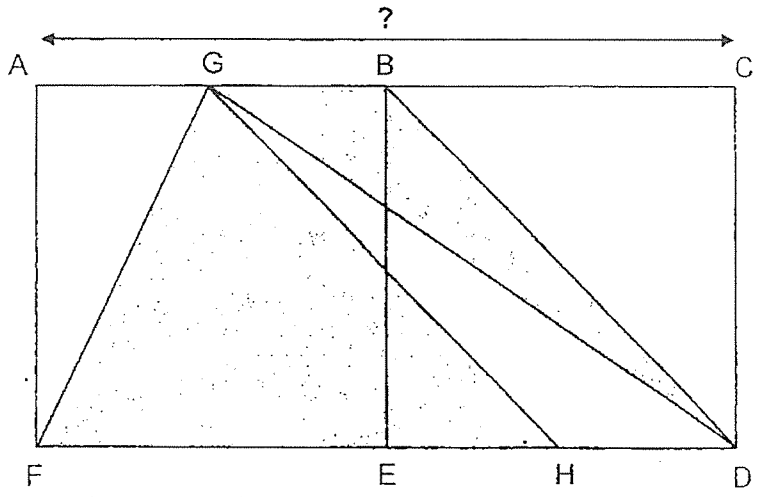
5 ABEF and BCDE are identical squares. AG = GB and EH = HD. The shaded area is 256 m^2. Find the length of AC.



Ans: _____ m

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)

6 The usual price of a television set was $6000. Mr Jones bought the television set at a 15% discount.

(a) How much was the discount?

Ans: (a) _____ [1]

(b) GST is 8% of the discounted price. How much did Mr Jones pay for the television set inclusive of GST?

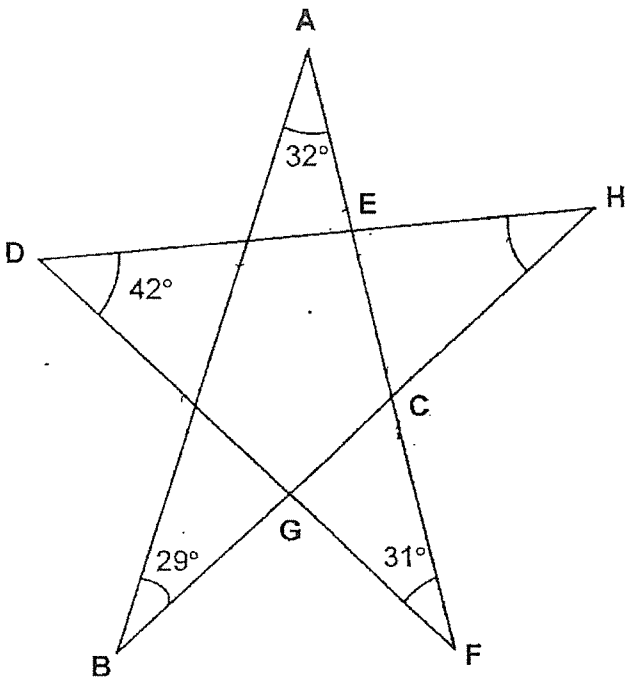
Ans: (b) _____ [2]

7 There were 1090 animals in Zoo A and 320 animals in Zoo B. After an equal number of animals joined each zoo, the number of animals in Zoo A became thrice that of Zoo B. How many animals joined each zoo?

Ans: _____ [3]

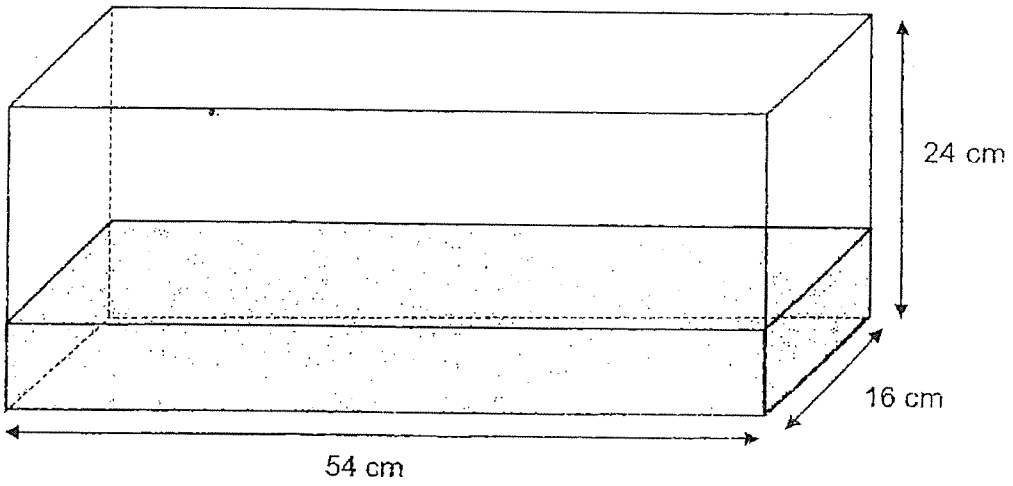
Please do not write in the margin.

8 In the figure, ABC, DEF and DHG are triangles. AF and BH are straight lines. Given that $\angle BAF = 32°$, $\angle FDH = 42°$, $\angle ABH = 29°$ and $\angle DFE = 31°$, find $\angle BHD$.



Ans: _____ [3]

9 A rectangular tank measuring 54 cm by 16 cm by 24 cm was $\frac{1}{4}$ - filled with water.



(a) Eight similar pails of water were poured into the tank. The tank is now half-filled with water. What is the capacity of one pail?

Ans: (a) _____ [2]

(b) The water is then poured into smaller containers with a square base of side 12 cm and a height of 8 cm to the brim. How many such containers can the water in the tank fill completely?

Ans: (b) _____ [2]

Please do not write in the margin.

(Go on to the next page)

10 There are 360 red, green and black buttons. 20% of the buttons are red. The ratio of the number of green and red buttons to the number of black buttons is 11 : 4. What is the ratio of the number of black and red buttons to the number of green buttons?

Ans: _____ [4]

11 There were some apples, oranges and pears in a supermarket. The average number of apples and oranges was 336. There were 140 more oranges than apples. The average number of the fruits was 332.

(a) How many oranges were there in the supermarket?

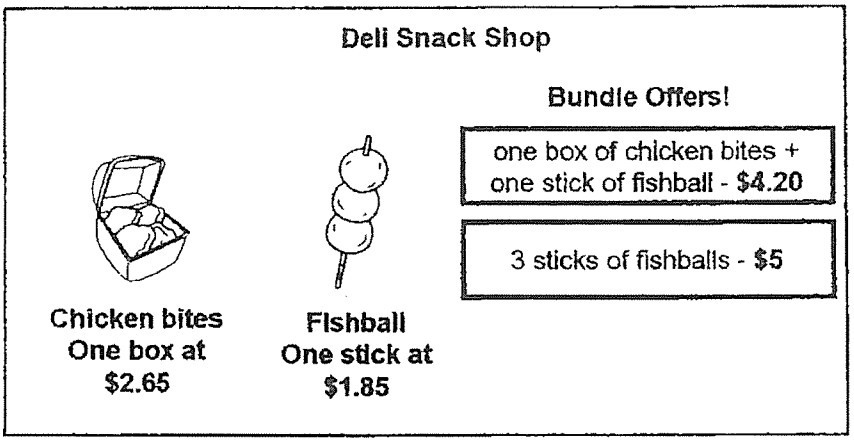
Ans: (a) _____ [2]

(b) After some oranges were sold, the average number of the fruits was 324. How many oranges were left in the market?

Ans: (b) _____ [2]

Please do not write in the margin.

12 Look at the diagram below.

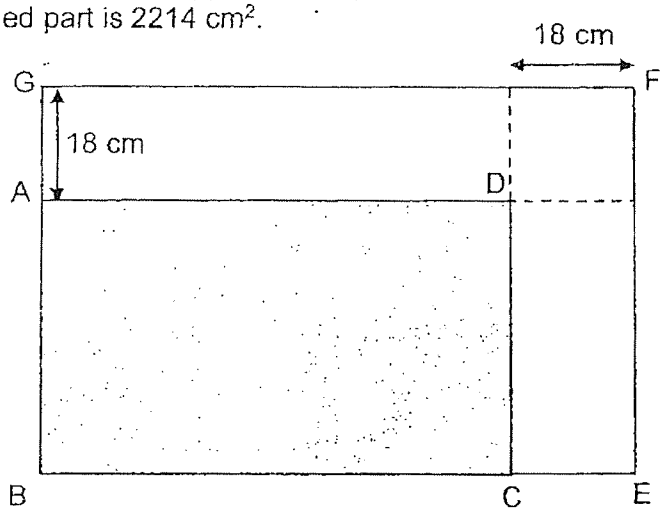


Belinda wants to buy 43 boxes of chicken bites and 48 sticks of fishballs for a class party. What is the least amount of money that she has to pay?

Ans: _____ [4]

Please do not write in the margin.

13 The figure shows two overlapping rectangles ABCD and BEFG. The area of the unshaded part is 2214 cm^2.



Given that the length of rectangle ABCD is twice its ~~breadth~~ breadth, find the area of rectangle ABCD.

Ans: _____ [4]

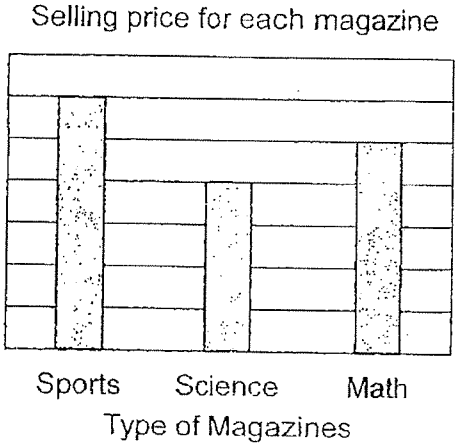
(Go on to the next page)

14 There were 10 chairs in each row. After Mr Png added 24 chairs, he rearranged the chairs in rows of 12. There were 6 less rows than before. How many chairs were there at first?

Ans: _____ [3]

15 The table shows the total sales of three magazines in a month. The bar graph shows the selling price of each magazine.

Types of Magazines	Sales of Magazines
Sports	$1950
Science	$1448
Math	$1850



(a) Which magazine had the greatest number of copies sold?

Ans: (a) _____ [2]

(b) The magazine vendor donated $\frac{1}{4}$ of the sales of the magazines to charity. How much was the donation?

Ans: (b) _____ [2]

Please do not write in the margin.

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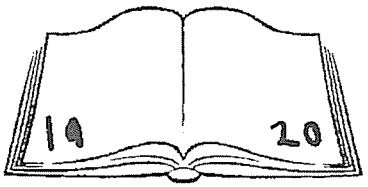
16 Miss Low started writing page numbers on a book. She wrote a total of 612 digits on the book.



(a) How many digits are there from page 1 to page 99?

Ans: (a) _____ [2]

(b) How many pages were there in the book?

Ans: (b) _____ [2]

Please do not write in the margin.

17 Mandy, Nora, Olivia and Penny shared some stickers. Penny took $\frac{1}{4}$ of the stickers. Olivia took $\frac{1}{5}$ of the remaining stickers. Nora took 20 more stickers than Olivia and Mandy took the rest of the stickers. Mandy had 34 stickers. How many stickers were there altogether?

Ans: _____ [5]

Please do not write in the margin.

End of Paper

SCHOOL : NAN HUA PRIMARY SCHOOL

LEVEL : PRIMARY 5

SUBJECT : MATHEMATICS

TERM : 2023 END OF YEAR EXAM

Booklet A

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

BOOKLET B

Q16. 0.012

Q17. 108

Q18. $1\frac{3}{4}$

Q19. Basketball court

Q20. 130cm^2

Q21. (a) 28

(b) 56

Q22. (a) $1\frac{1}{6}$

(b) 11.08

Q23. (a) 3kg 250g, $3\frac{1}{8}$kg, 3.055kg

(b) 1800m*l*

Q24. (a) 64°C

(b) 20 min

Q25. 6.56m

Q26. (a) $4cm^2$

(b) ΔBEC

Q27. 33

Q28. 64%

Q29. 224

Q30. 118°

PAPER 2

Q1. $\frac{1}{5}C + \frac{1}{4}S = 736$

$\frac{4}{5}C + \frac{4}{4}S = 2944$

$\frac{1}{5}C = 3262 - 2944 = 318$

Chocolate muffins sold $\rightarrow \frac{4}{5}C = 318 \times 4 = 1272$

Ans: 1272 chocolate muffins

Q2. $2 + 6 + 1 = 9$

$180° \div 9 = 20°$

$180° - 20° = 160°$

Ans: 160°

Q3. $5 - 2 = 3$

$42 \div 3 = 14$

$6 + 5 + 2 = 13$

$13 \times 14 = 182$

Ans: 182 marbles

Q4. $\$1.20 + (3 \times \$1.20) = \$4.80$

$\$4.80 + \$0.80 = \$5.60$

Ans: $5.60

Q5. $16 \times 16 = 256$

$16 \times 2 = 32$

Ans: 32m

Q6. (a) $15\% \times \$6000 = \$900$

Ans: $900

(b) $\$6000 - \$900 = \$5100$

$108\% \times \$5100 = \$5508$

Ans: $5508

Q7. $1090 - 320 = 770$

$770 \div 2 = 385$

$385 \times 3 = 1155$

$1155 - 1090 = 65$

Ans: 65 animals

Q8. $180° - 29° - 32° = 119°$

$180° - 119° = 61°$

$180° - 31° - 42° = 107°$

$180° - 107° = 73°$

$180° - 73° - 61° = 46°$

Ans: 46°

Q9. (a) $\frac{1}{4} \times 54 \times 16 \times 24 = 5184\text{cm}^3$

$5184 \div 8 = 648\text{cm}^3$

Ans: 648cm^3

(b) $12 \times 12 \times 8 = 1152\text{cm}^3$

$10368 \div 1152 = 9$

Ans: 9 containers

Q10. 15u = 360

1u = 24

Black buttons → 4u = 96

Green and red buttons → 11u = 264

Red buttons → $20\% \times 360 = 72$

Green buttons → $264 - 72 = 192$

Black and red buttons → $96 + 72 = 168$

Black and red buttons:	Green buttons
168	192
7	8

Ans: 7:8

Q11. (a) $336 \times 2 = 672$

$672 \quad 140 = 532$

$532 \div 2 = 266$

$266 + 140 = 406$

Ans: 406 oranges

(b) $324 \times 3 = 972$

$332 \times 3 = 996$

$996 - 972 = 24$

$406 - 24 = 382$

Ans: 382 oranges

Q12. 42C + 42F → $42 \times \$4.20 = \$176.40$

1C + 6F → $\$2.65 + (2 \times \$5) = \$12.65$

$\$176.40 + \$12.65 = \$189.05$

Ans: $189.05

Q13. $18 \times 18 = 324\text{cm}^2$

$2214 - 324 = 1890\text{cm}^2$

$1890 \div 3 = 630\text{cm}^2$

$630 \times 2 = 1260\text{cm}^2$

$1260 \div 18 = 70\text{cm}$

$70 \div 2 = 35\text{cm}$

$70 \times 35 = 2450\text{cm}^2$

Ans: 2450cm^2

Q14. $6 \times 10 = 60$

$60 + 24 = 84$

$84 \div 2 = 42$

$42 + 6 = 48$

$48 \times 10 = 480$

Ans: 480 chairs

Q15. (a) Sports → $\$1950 \div \$6 = 325$

Science → $\$1448 \div \$4 = 362$

Math → $\$1850 \div \$5 = 370$

Ans: Math

(b) $\$1950 + \$1448 + \$1850 = \$5248$

$\frac{1}{4} \times \$5248 = \$1312$

Ans: $1312

Q16. (a) $9 \times 10 = 90$

$90 \times 2 = 180$

$180 + 9 = 189$

Ans: 189 digits

(b) $612 - 189 - 423$

$423 \div 3 = 141$

$99 + 141 = 240$

Ans: 240 pages

Q17. $34 + 20 = 54$

$54 \div 9 = 6$

$6 \times 20 = 120$

Ans: 120 stickers