HENRY PARK PRIMARY SCHOOL
2023 END OF YEAR EXAMINATION
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET A)

Name: _____ ( ) Parent's Signature

Class: Primary 5_____ / 5M_____ _____

Marks:

Paper 1	Booklet A	20
	Booklet B	25
Paper 2		55
Total		100

Total Time for Booklets A and B: 1 hour

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.
You are **not** allowed to use a calculator.

Questions **1** to **10** carry 1 mark each. Questions **11** 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 in the Optical Answer Sheet.

(30 marks)

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1. 80 000 + 5000 + 700 + 2 = _____

(1) 85 720

(2) 85 702

(3) 85 072

(4) 80 572

2. Find the value of 50 – (5 + 21) ÷ 2 × 3

(1) 11

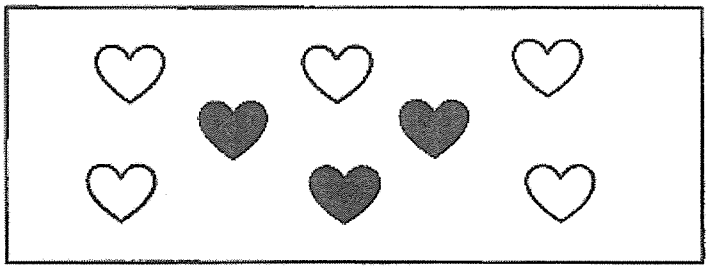
(2) 36

(3) 49

(4) 99

(Go on to the next page)

3. What fraction of the hearts in the box are shaded?



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

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

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

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

4. Which decimal is greater than 0.08 but smaller than 0.15?

(1) 0.1

(2) 0.9

(3) 0.01

(4) 0.23

5. Keith had 400 marbles. 120 of his marbles were green.
What percentage of Keith's marbles were green?

(1) 70%

(2) 60%

(3) 40%

(4) 30%

(Go on to the next page)

6. There are 70 buttons in a box. 24 of the buttons are red while the rest are blue. Express the number of red buttons to the number of blue buttons as a ratio in the simplest form.

(1) 12 : 23

(2) 12 : 35

(3) 23 : 12

(4) 23 : 35

7. Johan folds 5 paper cranes in 8 minutes.
At this rate, how many paper cranes can Johan fold in 40 minutes?

(1) 25

(2) 64

(3) 200

(4) 320

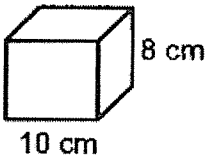
8. A solid cuboid of height 8 cm has a square base of side 10 cm.
What is its volume?

(1) 28 cm^3

(2) 80 cm^3

(3) 640 cm^3

(4) 800 cm^3



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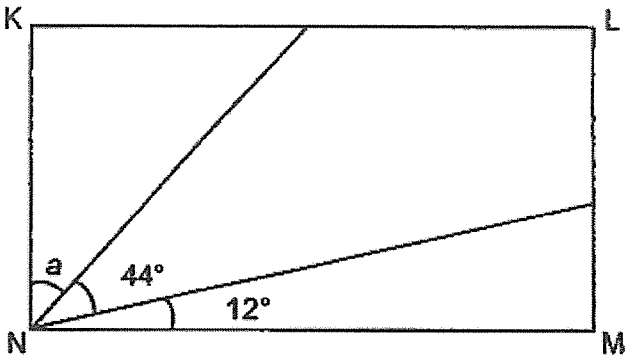
9. In the figure, KLMN is a rectangle. Find $\angle a$.



(1) 34°

(2) 45°

(3) 46°

(4) 56°

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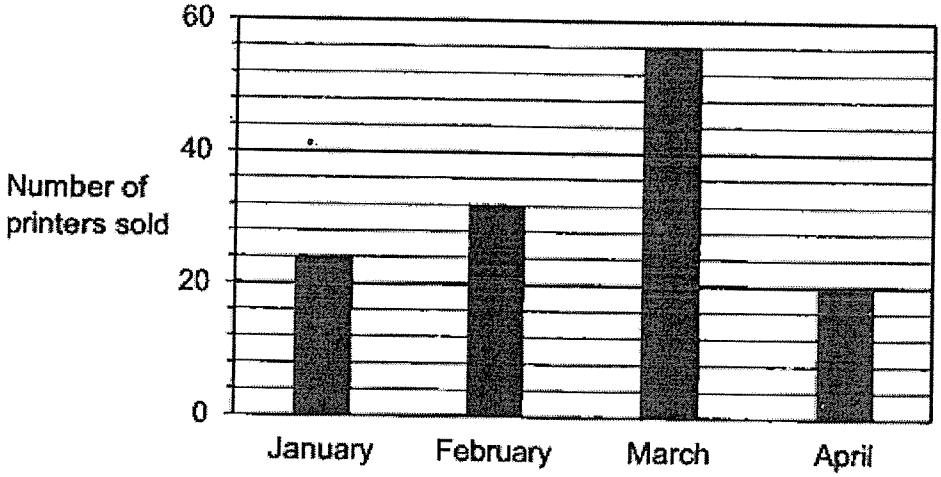
10. The graph below shows the number of printers sold by a shop from January to April.



How many printers did the shop sell in February?

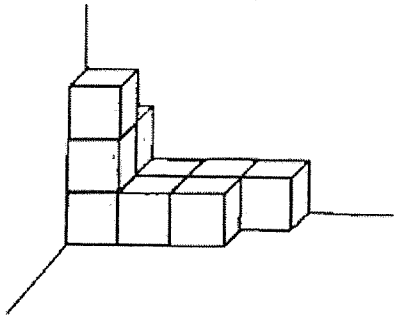
(1) 23

(2) 26

(3) 30

(4) 32

11. The solid below is made up of some identical 1-cm cubes.



What is the volume of the solid?

(1) 9 cm^3

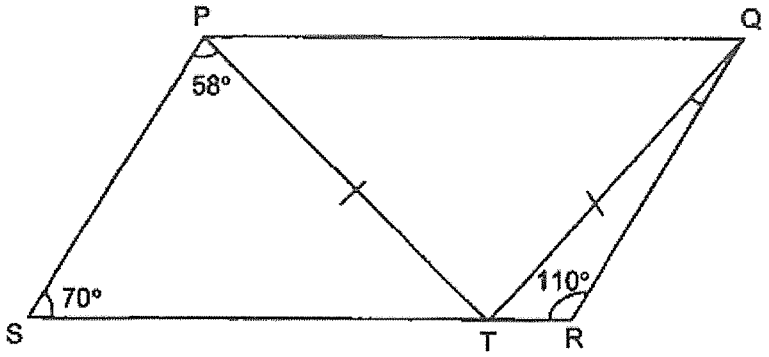
(2) 10 cm^3

(3) 17 cm^3

(4) 18 cm^3

(Go on to the next page)

12. PQRS is parallelogram and PQT is an isosceles triangle. Find ∠TQR.



(1) 6°

(2) 8°

(3) 12°

(4) 18°

13. The ratio of the length of a rectangle to its breadth is 6 : 5. The perimeter of the rectangle is 88 cm. What is the area of the rectangle?

(1) 120 cm^2

(2) 240 cm^2

(3) 480 cm^2

(4) 4320 cm^2

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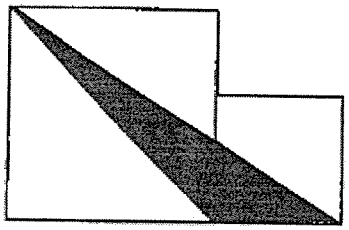
14. The figure below is made up of 2 squares of sides 5 cm and 3 cm.
Find the shaded area.



(1) 7.5 cm^2

(2) 12.5 cm^2

(3) 15 cm^2

(4) 20 cm^2

15. A table with 4 columns is filled with odd numbers in a certain pattern.
The first 4 rows of the table are shown below.

	Column A	Column B	Column C	Column D
Row 1	1	3	5	7
Row 2	9	11	13	15
Row 3	17	19	21	23
Row 4	25	27	29	31
⋮	⋮	⋮	⋮	⋮

In which column will the number 159 appear?

(1) Column A

(2) Column B

(3) Column C

(4) Column D

Go on to Booklet B

HENRY PARK PRIMARY SCHOOL
2023 END OF YEAR EXAMINATION
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET B)

Name: _____( )

Class: Primary 5_____/ 5M_____

/ 25

Total Time for Booklets A and B: 1 hour

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.

You are not allowed to use a calculator.

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 greatest multiple of 8 that is less than 50.

Ans: _____

17. Find the value of $\frac{1}{3} \times \frac{5}{7}$.

Ans: _____

18. Find the value of 7.2 ÷ 3

Ans: _____

Go on to the next page

19. What is the missing number in the box?

63 : ? = 7 : 2

Do not write in this space

Ans: _____

20. Printer A prints 20 posters in 1 minute. Printer B prints 30 posters in 1 minute. Given that printers A and B start printing at the same time, how long does it take for both printers to finish printing 4000 posters altogether?

Ans: _____ min

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 questions which require units, give your answers in the units stated.

(20 marks)

21. Gwen baked some cupcakes. After Amy took $\frac{1}{7}$ of the cupcakes and May took $\frac{2}{3}$ of the cupcakes, there were 24 cupcakes left. How many cupcakes did Gwen bake?

Ans: _____

22. Mr Lim had a total of 880 chairs in his shop. He sold 45% of the chairs. How many chairs did Mr Lim sell?

Ans: _____

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

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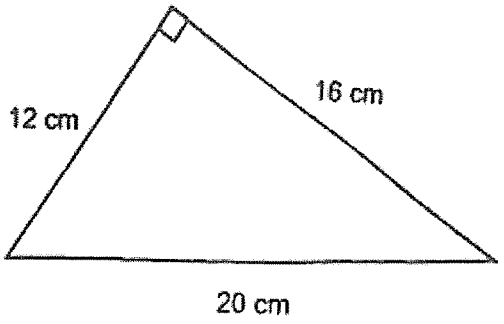


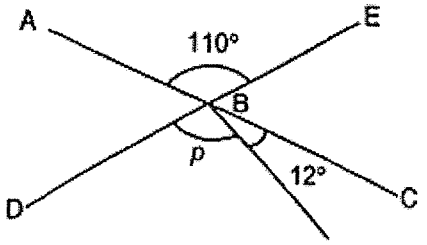
Ans: _____ cm^2

24. A group of 4 boys had an average of 32 stickers. When Edward joined the group, the 5 boys had an average of 42 stickers. How many stickers did Edward have?

Ans: _____

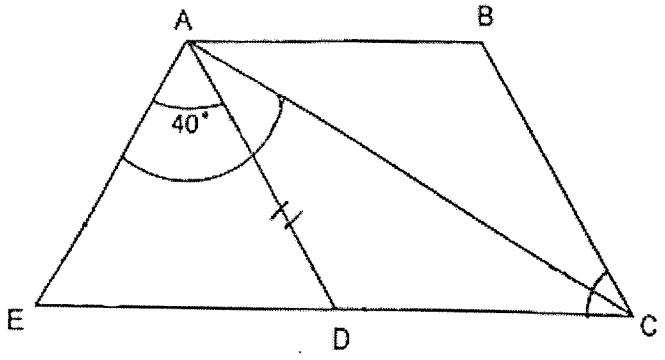
Go on to the next page

25. In the diagram below, ABC and DBE are straight lines. Find $\angle p$.



Ans: _____ °

26. In the figure below, ABCD is a rhombus and ADE is an isosceles triangle. EDC is a straight line and AE = AD. Find $\angle CAE$.



Ans: _____ °

Go on to the next page

27. The average test score of a group of students was 80. When Miss Lim recorded the test score of these students, she wrongly recorded one student's test score as 20 when it should have been 90.
As a result, Miss Lim calculated the average test score as 78.
How many students were there in the group?

Do not write in this space

Ans: _____

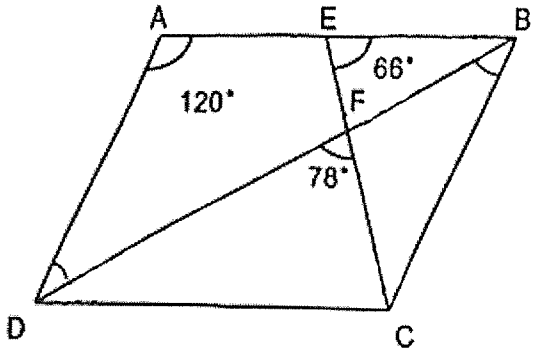
28. Kelly and Louis had the same number of cookies at first. Each day, Kelly ate 4 cookies while Louis ate 6 cookies. When Louis had 12cookies left. Kelly still had 3 times as many cookies as him. How many cookies did Kelly have at first?

Ans: _____

Go on to the next page

29. ABCD is a parallelogram. EFC is a straight line.

$\angle DAB = 120^\circ$, $\angle BEC = 66^\circ$ and $\angle DFC = 78^\circ$, find $\angle CBD$.



Ans: _____ °

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30. Figure 1 shows a square piece of paper, WXYZ. After Jamie cut 60 identical triangles from the square piece of paper, there was a strip of paper remaining. Figure 2 shows the measurement of one such triangle Jamie cut. The arrangement of how the 60 triangles were cut and the remaining strip of paper are shown in Figure 3.
Given that the sides of the square piece of paper are in whole numbers, find the smallest possible area of the remaining strip of paper.

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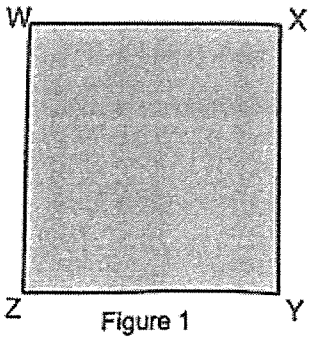

Figure 1

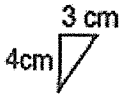

Figure 2

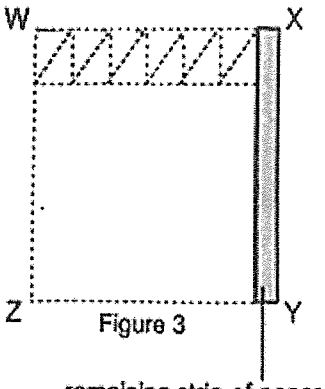

Figure 3

Ans: _____ cm^2

HENRY PARK PRIMARY SCHOOL
2023 END OF YEAR EXAMINATION
MATHEMATICS
PRIMARY 5

PAPER 2

Name: _____ ( )

Class: Primary 5_____ / 5M_____

/ 55

Time for Paper 2: 1 h 30 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

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)

1. The mass of a tennis ball is 58.3 g. The mass of an empty basket is 356 g. Find the total mass of the basket containing 40 such tennis balls.

Ans:_____ g

2. Tom has $4200 in his savings account. He earns 2.5% interest each year. How much will Tom have in his account at the end of 1 year?

Ans:$ _____

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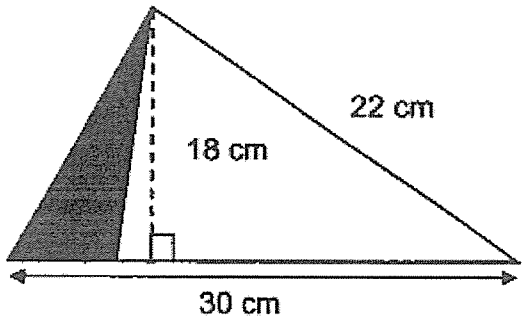
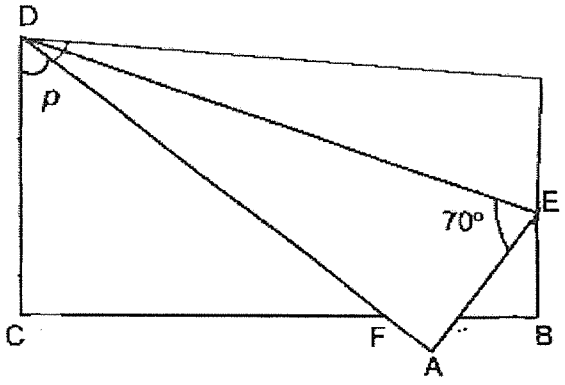
3. The shaded area of the figure below is 50 cm². Find the area of the unshaded part.



Ans: _____ cm²

4. In the figure below, a rectangular piece of paper is folded along DE as shown. Find $\angle p$.



Ans: _____ °

5. Fred and Gary had $952 altogether. Gary and Henry had $730 altogether. Fred and Henry had $638 altogether. How much money did Henry have?

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)

6. Farah had a bag of coloured beads. She wanted to make 8 bracelets but was short of 145 beads. After she made 3 bracelets, she had 210 beads left. How many beads did Farah have in the bag?

Ans: _____ [3]

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7. Ahmad baked some chocolate and strawberry cupcakes in the ratio of 2 : 7. He sold $\frac{1}{2}$ of the strawberry cupcakes in the morning. After that, he had 285 more strawberry cupcakes than chocolate cupcakes left.
How many cupcakes did Ahmad bake in total?

Ans: _____ [3]

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8. Ms Loh boarded a taxi at the airport and headed to a hotel 16 km 300 m away. Her taxi fare was based on the charges shown below.

Distance travelled	Charge
First kilometre or less	$4.20
Every 400 m thereafter or less	$0.27
Airport surcharge	$3.50

How much was her taxi fare?

Ans: _____ [3]

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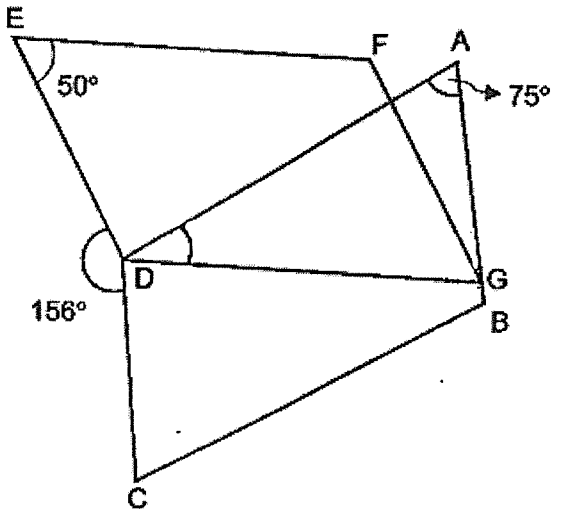
9. In the figure below, ABCD and DEFG are two parallelograms. AGB is a straight line. ∠DEF = 50°, ∠DAG = 75° and ∠CDE = 156°.
Find ∠ADG.



Ans: _____ [3]

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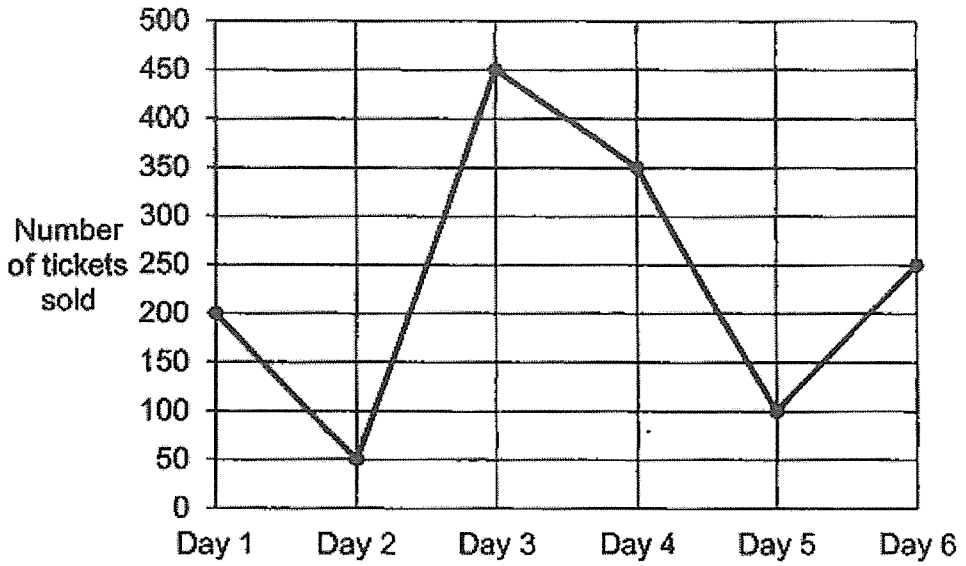
10. The graph below shows the sale for concert tickets for 6 days.

Use the graph to answer the following questions:



(a) On which day was there a decrease in sales by 100 tickets compared to the day before?

Ans: (a) Day_____ [1]

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(b) $\frac{7}{10}$ of the total number of tickets sold from Day 4 to Day 6 were child tickets. The rest were adult tickets. The prices of adult and child tickets are shown below.

Ticket	Price per ticket
Adult	$45
Child	$20

How much money was collected from the sales of ticket from Day 4 to Day 6?

Ans: (b) _____ [3]

11. Michael has 5 times as much money as Ravi. They have $4560 altogether.

(a) After each of them bought a standing fan of the same price, Michael had 6 times as much money left as Ravi. How much was the standing fan?

Ans: (a)_____ [3]

(b) After buying the standing fan, Michael gave Ravi some money. Michael and Ravi then had an equal amount of money. How much money did Michael give to Ravi?

Ans: (b) _____ [2]

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Please do not write in the margin.

12. Ali earns a fixed monthly salary. In June, he spent $\frac{1}{3}$ of his salary on a table and $\frac{5}{6}$ of his remaining salary on a television.

(a) What fraction of Ali's salary was spend on the television?

Ans: (a)_____ [1]

(b) After buying the table and television, Ali had $360 left. Then, he spent $336 to buy a total of 20 plates and bowls. Each bowl cost $27 while each plate cost $10. What fraction of Ali's salary was spent on the plates?

Ans: (b) _____ [4]

13. Mr Tan sold chairs at a furniture sale event. For every chair sold, he would earn $3. For every 25 chairs sold, he would earn an additional $10. Given that Mr Tan earned $364 from selling the chairs, how many chairs did he sell?

Ans: _____ [4]

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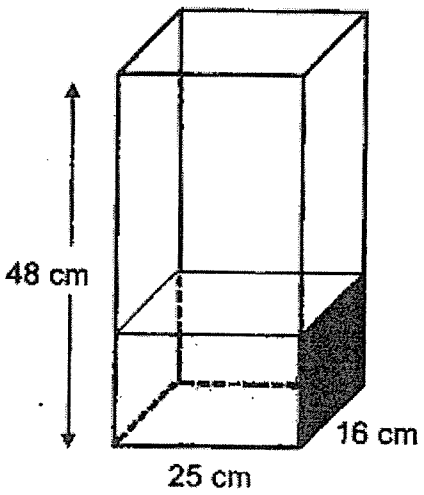
14. A container measuring 25 cm by 16 cm by 48 cm was $\frac{1}{3}$ –filled with water at first. 500 ml of water was then used for watering the plants.



(a) How many litres of water were left in the container?

Ans: (a) _____ [2]

(b) Eric poured all the remaining water in the container into identical bottles. Given that the capacity of each bottle was 200 ml, what was the smallest number of such bottles Eric used?

Ans: (b) _____ [2]

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15. A box contains some coloured ribbons. 44% of the ribbons are yellow and the rest are pink and blue. The ratio of the number of pink ribbons to the number of blue ribbons is 3 : 5. There are 1748 more yellow ribbons than pink ribbons. How many ribbons are there altogether?

Ans: _____ [3]

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16. A durian costs 3 times as much as a mango. Jia Hui spent $\frac{5}{7}$ of her money on 17 durians and 14 mangoes. Then, she spent $\frac{1}{2}$ of the remaining money on another 3 durians and some mangoes. How many mangoes did she buy altogether?

Ans: _____ [3]

17. Class 5K and Class 5L made some large and small keychains to raise funds for charity. Each large keychain cost 4 times as much as each small keychain. Each large keychain cost $14.80.

(a) Class 5K sold an equal number of small and large keychains. They collected $629 from the sale of all the keychains. How many large keychains did Class 5K sell?

Ans: (a)_____ [2]

(b) Class 5L collected $529.10 from selling the small and large keychains. The class sold 18 more small keychains than large keychains. How many small keychains did Class 5L sell?

Ans: (b) _____ [3]

The End

Setters: Madam Ong Li Ling and Ms Tan Zi Xuan

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SCHOOL : HENRY PARK PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : 2023 SA2

PAPER 1 (BOOKLET A)

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

PAPER 1 (BOOKLET B)

Q16	48
Q17	$\frac{5}{21}$
Q18	2.4
Q19	18
Q20	80 min
Q21	$1 - \frac{1}{7} - \frac{2}{3} = \frac{4}{21}$ 4u = 24 1u = 6 21u = 21 x 6 = **126**
Q22	$\frac{45}{100}$ x 880 = **396**
Q23	0.5 x 12 x 16 = **96 cm²**
Q24	(5 x 42) - (4 x 32) = **82**
Q25	110° - 12° = **98°**
Q26	∠ADE = (180° - 40°) ÷ 2 = 70° ∠CAD = 70° ÷ 2 = 35° ∠CAE = 40° + 35° = **75°**
Q27	90 - 20 = 70 80 - 78 = 2 70 ÷ 2 = **35**

Q28	Common multiples of 4 and 6 = 12, 24, 36, 48, 60, 72, 84 No. of cookies Kelly had left = 3 x 12 = 36 Use guess and check method, taking common multiples as Kelly and Louis' cookies at first Guess 1: Cookies both had first = 84 Days taken for Kelly to be left with 36 cookies = (84 - 36) ÷ 4 = 12 days Days taken for Louis to be left with 12 cookies = (84 - 12) ÷ 6 = 12 days Ans: **84**
Q29	∠EBF = 180° - 66° - 78° = 36° ∠BDC = 36° ∠CBD = 180° - 36° - 120° = **24°**
Q30	1 row = 12 triangles 60 ÷ 12 = 5 rows 5 x 4 = 20 cm → length of 1 side of square 20 - 18 = 2 cm 20 x 2 = **40 cm²**

PAPER 2

Q1	58.3 g x 40 = 2332 g 2332 g + 356 g = **2688 g**
Q2	\$4200 x 1.025 = **\$4305**
Q3	Area of big triangle = 0.5 x 18 x 30 = 270 cm² Area of unshaded part = 270 - 50 = **220 cm²**
Q4	∠ADL = 180° - (90° + 70°) = 20° ∠p = 90° - 20° - 20° = **50°**
Q5	G + H + F + H = \$730 + \$638 = \$1368 2H = \$1368 - \$952 = \$416 1H = \$416 ÷ 2 = **\$208**
Q6	8B - 145 = T 3B + 210 = T 8B - 145 = 3B + 210 5B = 355 1B = 71 No. of beads = (3 x 71) + 210 = **423**
Q7	0.5 x 7 = 3.5u 3.5u - 2u = 285 1.5u = 285 1u = 190 9u = 9 x 190 = **1710**
Q8	16 km 300 m = 16300 m (16300 - 1000) ÷ 400 = 38 R 100 \$3.50 + \$4.20 + \$0.27 x (38 + 1) = **\$18.23**

Q9	$\angle EDA = 360° - 156° - (180° - 75°) = 99°$ $\angle ADG = 180° - 50° - 99° =$ **31°**
Q10a	Day 4
Q10b	Total sales from Day 4 to 6 = 350 + 100 + 250 = 700 Amt. collected from adult ticket sales = $\frac{3}{10}$ x 700 x \$45 = \$9450 Amt. collected from child ticket sales = $\frac{7}{10}$ x 700 x \$20 = \$9800 Total money collected = \$9450 + \$9800 = **\$19250**
Q11a	\$4560 ÷ 6 = \$760 (\$760 x 5) - \$760 = \$3040 5p = \$3040 1p = \$608 \$760 - \$608 = **\$152**
Q11b	\$3040 ÷ 2 = **\$1520**
Q12a	$\frac{2}{3} \times \frac{5}{6} = \frac{\mathbf{5}}{\mathbf{9}}$
Q12b	No. of bowls bought = 8 No. of plates bought = 12 12 x \$10 = \$120 $\frac{120}{(360 \times 9)} = \frac{\mathbf{1}}{\mathbf{27}}$
Q13	Total earned from selling 25 chairs = 25 x \$3 + \$10 = \$85 \$364 ÷ \$85 = 4 R \$24 \$24 ÷ \$3 = 8 8 + (25 x 4) = **108**
Q14a	Vol. of water at first = $\frac{1}{3}$ x 48 x 25 x 16 = 6400 ml Vol. of water left = 6400 - 500 = 5900 ml = **5.9 ℓ**
Q14b	5900 ÷ 200 = 29 R 100 29 + 1 = **30**
Q15	P : B : Total 3 : 5 : 8 = 21 : 35 : 56 44u - 21u = 1748 23u = 1748 1u = 76 100u = **7600**

Q16	1 mango = 1u 1 durian = 3u Total units for 17 durians and 14 mangoes = 51u + 14u = 65u 65u = 5p 1p = 13u 13u - (3 x 3u) = 4u → 4 mangoes bought with half of remaining money Total mangoes bought = 4 + 14 = **18**
Q17a	Cost of small keychain = \$14.80 ÷ 4 = \$3.70 Group 1 small and 1 large keychain = \$14.80 + \$3.70 = \$18.50 \$629 ÷ \$18.50 = **34**
Q17b	18 x \$3.70 = \$66.60 \$529.10 - \$66.60 = \$462.50 \$462.50 ÷ \$18.50 = 25 25 + 18 = **43**