

**A**

PEI CHUN PUBLIC SCHOOL  
END-OF-YEAR EXAMINATION, 2024

MATHEMATICS  
PRIMARY 5

PAPER 1  
(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS)

Total Time For Booklets A & B : 1 h

Name : \_\_\_\_\_ ( )

Class : Primary 5 / \_\_\_\_\_

Date : 28 October 2024

Maths Teacher: \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATES**

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL THE 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 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)

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1. What is the value of the digit 7 in 70 489?

- (1) 7
- (2) 70
- (3) 7000
- (4) 70 000

2. What is the missing number?

$$\frac{8}{12} = \frac{2}{\boxed{?}}$$

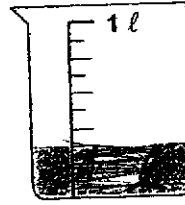
- (1) 8
- (2) 6
- (3) 3
- (4) 4

3. In 4.312, which digit is in the tenths place?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

4. How much water is in the container shown?

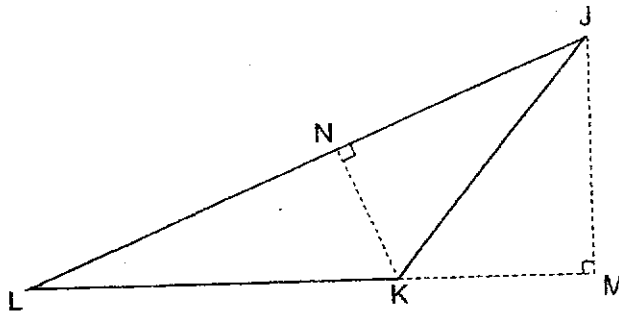
- (1) 150 ml  
 (2) 200 ml  
 (3) 250 ml  
 (4) 300 ml



5. Mdm Aisyah baked 200 cupcakes. She gave 70 cupcakes to her neighbour. What percentage of the cupcakes did she give to her neighbour?

- (1) 30%  
 (2) 35%  
 (3) 65%  
 (4) 70%

6. The figure below shows triangle JKL.



Given the base LK, which of the following is its corresponding height?

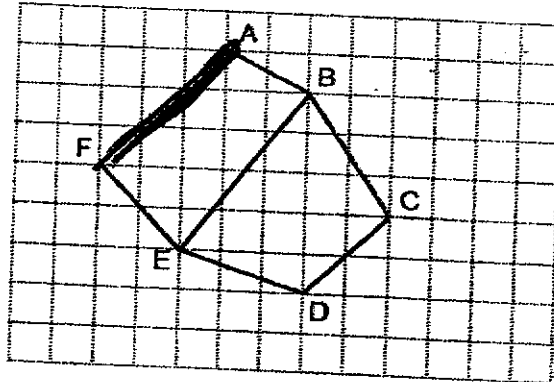
- (1) JK  
 (2) JM  
 (3) LJ  
 (4) NK

7. The table below shows the temperatures of cities A, B, C and D.

City	Lowest Temperature ( $^{\circ}\text{C}$ )	Highest Temperature ( $^{\circ}\text{C}$ )
A	9	19
B	14	21
C	17	31
D	4	26

When Faizal was at some of these cities, the temperature was  $10^{\circ}\text{C}$ . Name the cities.

- (1) A and D
  - (2) B and D
  - (3) B and C
  - (4) C and D
8. Which line in the square grid is parallel to AF?



- (1) AB
- (2) BE
- (3) CD
- (4) EF

9. Which fraction is greater than  $\frac{1}{2}$ ?

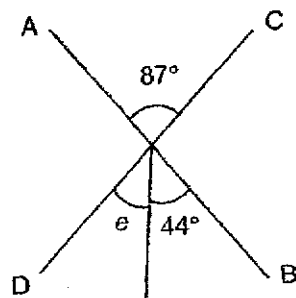
(1)  $\frac{4}{9}$

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

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

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

10. AB and CD are straight lines.



Find  $\angle e$ .

(1)  $43^\circ$

(2)  $44^\circ$

(3)  $46^\circ$

(4)  $49^\circ$

11. Mandy bought a roll of ribbon and used 0.75 m. She cut the remaining ribbon into 10 equal pieces, each 25 cm long. What was the length of the ribbon at first?

(1) 1 m

(2) 2.5 m

(3) 3.25 m

(4) 25.75 m

12. The ratio of Emily's age to her sister's age is 1 : 3. In 4 years' time, their total age will be 36 years old. What is Emily's age now?
- (1) 5 years old
  - (2) 7 years old
  - (3) 8 years old
  - (4) 9 years old
13. The average of 4 numbers is 99. The sum of the first 3 numbers is 315. What is the fourth number?
- (1) 6
  - (2) 81
  - (3) 105
  - (4) 216
14. Farmer Lee had some apples and oranges. He sold  $\frac{1}{3}$  of the apples and  $\frac{1}{6}$  of the oranges.  $\frac{3}{7}$  of the fruits sold were oranges. What fraction of the fruits were sold?
- (1)  $\frac{1}{2}$
  - (2)  $\frac{7}{30}$
  - (3)  $\frac{23}{30}$
  - (4)  $\frac{7}{33}$

15. John went to a bookshop to buy some stickers. For every 35 stickers that John paid for at the bookshop, he received 5 free stickers. John left the bookshop with 520 stickers. What was the least number of stickers he paid for?

- (1) 13
- (2) 65
- (3) 455
- (4) 507

**B**

PEI CHUN PUBLIC SCHOOL  
END-OF-YEAR EXAMINATION, 2024

MATHEMATICS  
PRIMARY 5

PAPER 1  
(BOOKLET B)

Total Time For Booklets A & B : 1 h

Name : \_\_\_\_\_ ( )

Class : Primary 5, \_\_\_\_\_

Date : 28 October 2024

Maths Teacher: \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATES**

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.

USE A DARK BLUE OR BLACK BALLPOINT PEN TO WRITE YOUR ANSWERS IN THE SPACE PROVIDED FOR EACH QUESTION.

DO NOT USE CORRECTION FLUID/TAPE OR HIGHLIGHTERS.

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

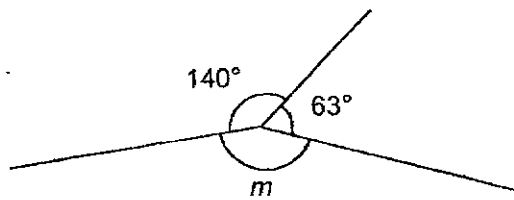
Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.  
For questions which require units, give your answers in the units stated. (5 marks)

Do not write  
in this space

16. Find the largest multiple of 8 that is smaller than 60.

Answer : \_\_\_\_\_

17. Find  $\angle m$  in the figure shown.



Answer : \_\_\_\_\_ $^\circ$

18. Round 3.785 to 2 decimal places.

Answer : \_\_\_\_\_

SCORE

19. Tim cleaned his room from 9.30 a.m. to 11.15 a.m. How much time did Tim spend cleaning his room? Give your answer in h and min.

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Answer : \_\_\_\_\_ h \_\_\_\_\_ min

20. There were 440 books on sale. James sold 30% of them.  
How many books did James sell?

Answer : \_\_\_\_\_

SCORE

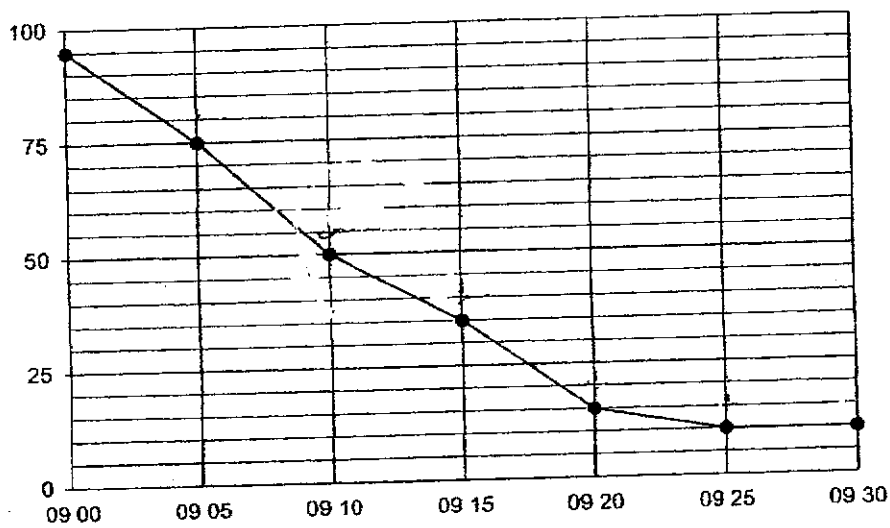
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Do not write in this space

21. Water leaks from a tap at a rate of 7 ml per second.  
At this rate, how much water will leak from the tap in 1 minute?

Answer : \_\_\_\_\_ ml

22. The graph shows the temperature of water in a pot from 09 00 to 09 30.



For how many minutes was the temperature of the water 50°C and below?

Answer : \_\_\_\_\_ min

SCORE

23. There were 56 children at a party.  $\frac{2}{7}$  of them were boys. The rest were girls.  
How many more girls than boys were there at the party?

Do not write  
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Answer : \_\_\_\_\_

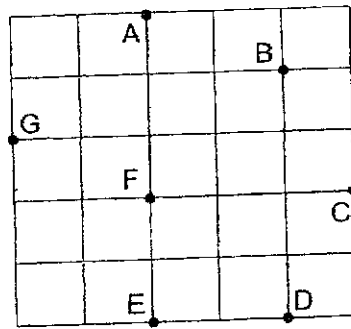
24. Madelyn had  $\frac{3}{5}$  kg of flour. She used  $\frac{1}{3}$  of the flour for baking.  
How much flour was she left with?

Answer : \_\_\_\_\_ kg

SCORE

25. The square grid shows the positions of points A, B, C, D, E, F, and G.

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(a) In which direction was Point F from Point B?

Answer : (a) \_\_\_\_\_

(b) Ali stood at one of the points facing F. After he turned  $45^\circ$  anti-clockwise, he faced C. Which point was Ali at?

Answer : (b) \_\_\_\_\_

26. Two numbers add up to 315. One of them is a 2-digit number and the other is a 3-digit number. What is the smallest possible difference between the two numbers?

Answer : \_\_\_\_\_

SCORE

27. 170 students participated in a charity drive. Each student collected 80 plastic bottles. What was the total number of plastic bottles collected by the students?

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Answer : \_\_\_\_\_

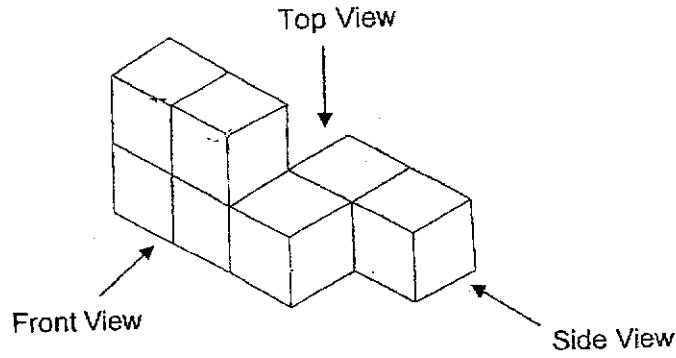
28. The cost of 3 hair bands was the same as the cost of 12 hair clips. Mei Ling bought 3 hair bands. Jessie bought 1 hair band and some hair clips. Both of them spent the same amount of money. How many hair clips did Jessie buy?

Answer : \_\_\_\_\_

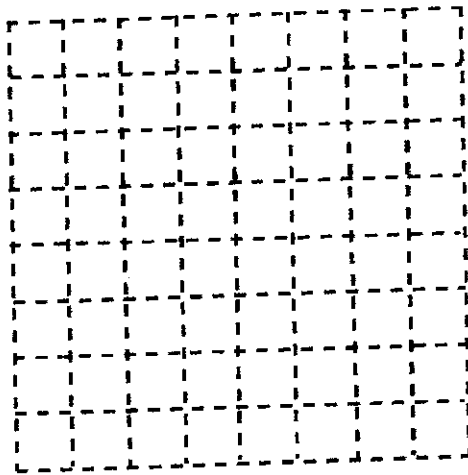
SCORE

29. The figure below shows 7 identical cubes which are glued together to form a solid.

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- (a) Draw the front view of the solid.



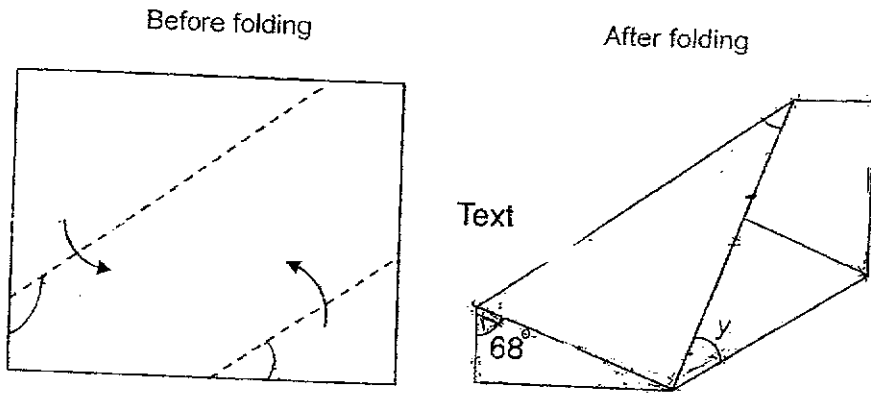
- (b) The whole solid, including the base, is then painted red. How many cubes have exactly four of their faces painted red?

Answer : (b) \_\_\_\_\_

SCORE

30. Hassan had a rectangular piece of paper. He folded it along the dotted lines without overlapping as shown below.

Do not write in this space



Find  $\angle y$ .

Answer : \_\_\_\_\_ °

End of Paper

SCORE

**PEI CHUN PUBLIC SCHOOL**  
**END-OF-YEAR EXAMINATION, 2024**

**MATHEMATICS**  
**PRIMARY 5**

**PAPER 2**

Time: 1 h 30 min

Name : \_\_\_\_\_ ( )

Class : Primary 5/ \_\_\_\_\_

Date : 28 October 2024

Maths Teacher: \_\_\_\_\_

Parent's Signature: \_\_\_\_\_

Paper 1 (Booklet A)	20
Paper 1 (Booklet B)	25
Paper 2	55
<b>TOTAL</b>	<b>100</b>

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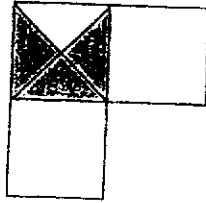
USE A DARK BLUE OR BLACK BALLPOINT PEN TO WRITE YOUR ANSWERS IN THE SPACE PROVIDED FOR EACH QUESTION.

DO NOT USE CORRECTION FLUID/TAPE OR HIGHLIGHTERS.

THE USE OF AN APPROVED CALCULATOR IS ALLOWED.

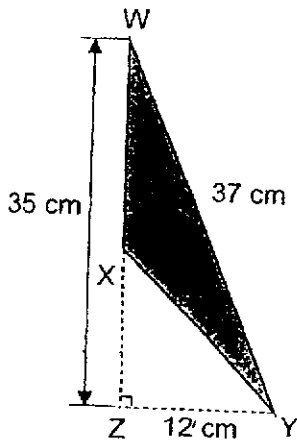
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1. The figure is made up of 3 squares. One square is divided equally into 4 triangles. What fraction of the figure is shaded? Express your answer in its simplest form.



Answer: \_\_\_\_\_

2. In the figure below, WXZ is a straight line and  $XZ = ZY$ . What is the area of triangle WXY?



Answer: \_\_\_\_\_  $\text{cm}^2$

3. Peter had 3 times as many pens as Siti. They had 228 pens altogether. How many pens did Siti have?

Answer: \_\_\_\_\_

Do not write in this space

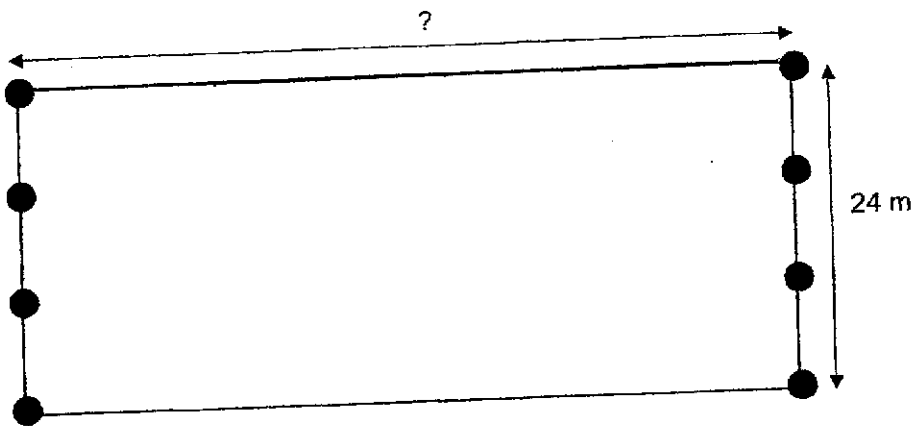
SCORE

4. 7 ℓ of juice was poured into 8 bottles equally.  
 How much juice was there in each bottle?  
 Leave your answer as a fraction or a mixed number.

Do not write  
 in this space

Answer: \_\_\_\_\_ ℓ

5. 20 cones were placed equal distance apart along all four sides of a rectangular field. The diagram below shows the arrangement of cones along two sides of the rectangular field. The breadth of the rectangular field is 24 m.



Find the length of the rectangular field.

Answer: \_\_\_\_\_ m

SCORE

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)

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6. The table below shows the charges for a photocopier service.

Number of copies	Price
First 100 copies	7 cents per copy
Above 100 copies	4 cents per copy

- (a) Murali printed 98 copies. How much did he pay?

Answer: (a) \_\_\_\_\_ [1]

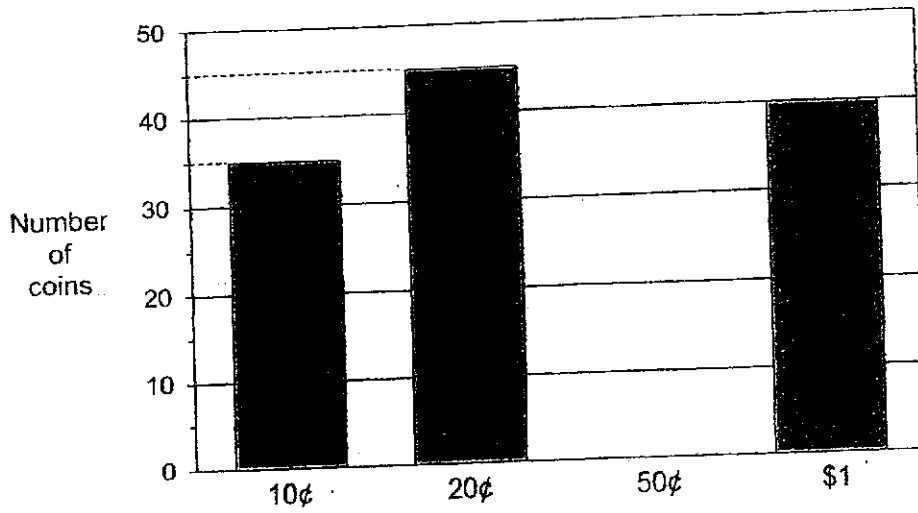
- (b) Aminah printed some copies and paid \$8.12 for the photocopying services. How many copies did she print?

Answer: (b) \_\_\_\_\_ [2]

SCORE

7. The graph below shows the number of coins Jack had in his piggy bank. The number of 50¢ coins is not recorded in the graph.

Do not write in this space



$\frac{1}{2}$  of the total number of coins Jack had are 50¢ coins.

How much money did Jack have in his piggy bank?

Answer: \_\_\_\_\_ [3]

SCORE

8. Gina had 3.06 l of water in a jug. She poured the water into identical cups with some water left in the jug. Each cup had a capacity of 280 ml.

(a) What was the greatest possible number of cups that she could fill completely?

Do not write in this space

Answer: (a) \_\_\_\_\_ [2]

(b) What was the amount of water left in the jug?

Answer: (b) \_\_\_\_\_ [2]

SCORE

9. Rosnah spent \$739.50 on some pillows and towels. She bought 3 more pillows than towels. A pillow cost \$22.50 and a towel cost \$9.50.

(a) Find the cost of 3 pillows.

Answer: (a) \_\_\_\_\_ [1]

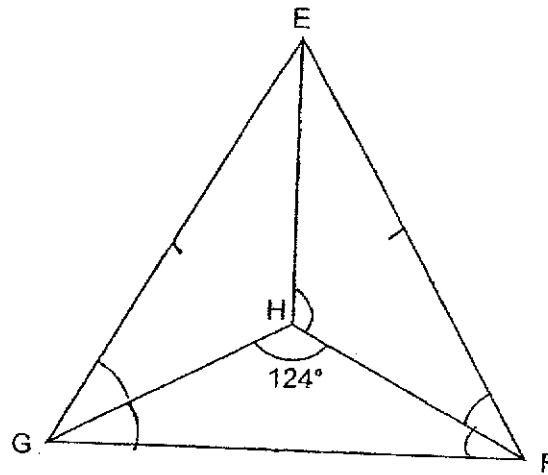
(b) How many towels did she buy?

Answer: (b) \_\_\_\_\_ [3]

SCORE

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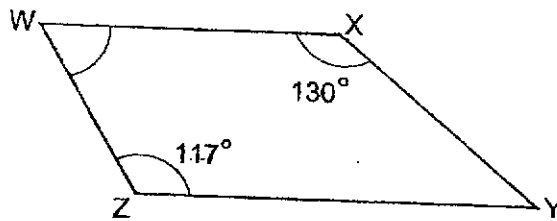
10. In the figure below, EFG is an equilateral triangle and  $GH = FH$ .



- (a) Find  $\angle EFH$ .

Answer: (a) \_\_\_\_\_ [2]

- (b) In the figure below, WXYZ is a trapezium and  $WX \parallel ZY$ .



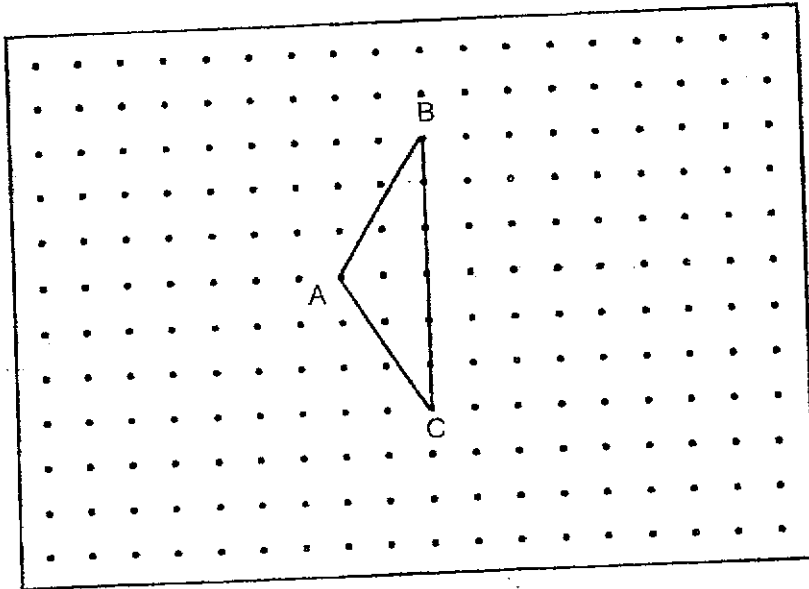
Find  $\angle XWZ$ .

Answer: (b) \_\_\_\_\_ [2]

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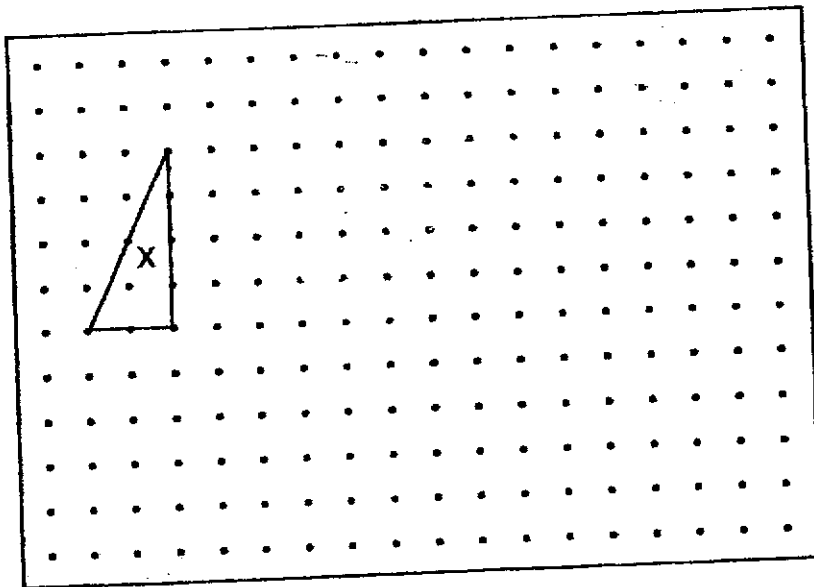
11. Mei Yan drew a triangle ABC in a square grid as shown below.

Do not write  
in this space



(a) Triangle BCD is an isosceles triangle with an area that is twice the area of triangle ABC. Draw triangle BCD on the grid above such that triangle BCD does not overlap with triangle ABC. [2]

(b) Mei Yan drew another triangle X in a square grid as shown below. Draw a parallelogram with the same perimeter as X. Label the parallelogram Y. [2]



SCORE

12. Mdm Lee had 480 beads. 45% of her beads were blue and the rest were red. She used 105 red and blue beads to make a necklace. 60% of the remaining beads were red.

(a) How many red beads did she have at first?

Answer: (a) \_\_\_\_\_ [1]

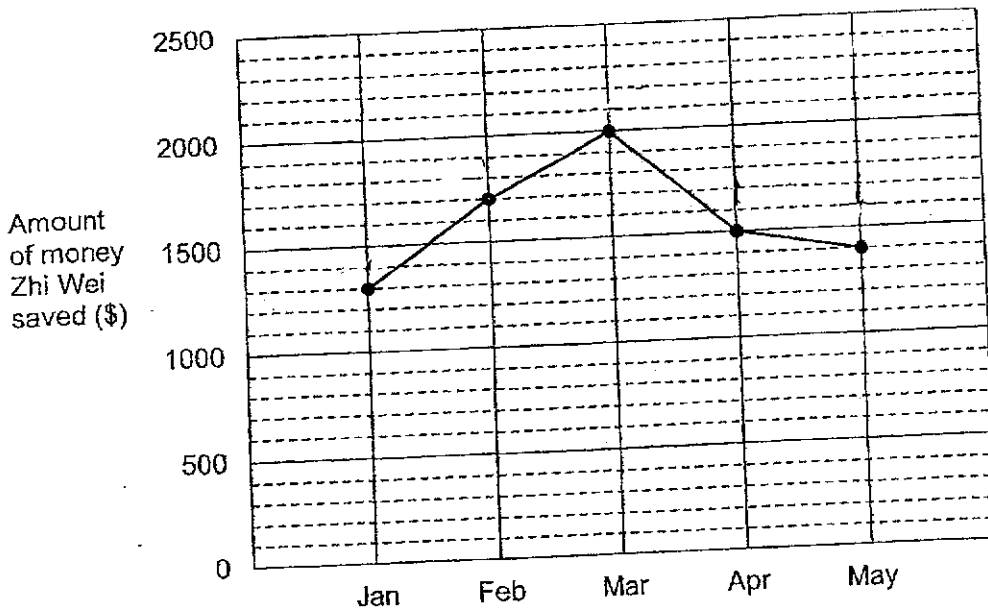
(b) How many red beads did she use?

Answer: (b) \_\_\_\_\_ [3]

Do not write  
in this space

13. Zhi Wei earns \$2400 each month. He spends some of his salary and saves the rest. The line graph below shows the amount of money he saved each month.

Do not write in this space



- (a) In which month did Zhi Wei spend the most amount of money?

Answer: (a) \_\_\_\_\_ [1]

- (b) What fraction of his monthly salary did he save in March?  
Give your answer in the simplest form.

Answer: (b) \_\_\_\_\_ [1]

- (c) What percentage of his monthly salary did he spend in May?  
Give your answer correct to the nearest 1%.

Answer: (c) \_\_\_\_\_ [2]

SCORE

14. Mr Tan had some yellow and pink balloons. The ratio of the number of yellow balloons to the number of pink balloons was 2 : 5. There were 36 more pink balloons than yellow balloons.

(a) How many pink balloons did Mr Tan have?

Answer: (a) \_\_\_\_\_ [2]

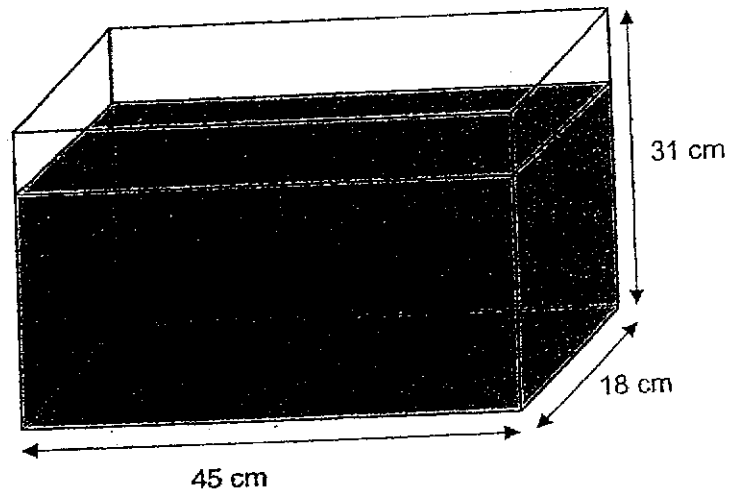
(b) Mr Tan gave away 50 pink balloons. Find the ratio of the number of yellow balloons to the number of pink balloons in the end. Give your answer in the simplest form.

Answer: (b) \_\_\_\_\_ [2]

Do not write  
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15. A rectangular tank measuring 45 cm by 18 cm by 31 cm was filled with 18.8 l of water. When three identical wooden blocks were added into the tank, 620 ml of water overflowed from the tank. What is the volume of one such wooden block?



Do not write  
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Answer: \_\_\_\_\_ [3]

SCORE

16. Sunitha had a sum of money. She spent  $\frac{2}{3}$  of it on a television set,  $\frac{1}{2}$  of her remaining money on a washing machine and another \$52 on a coffee table. She had  $\frac{1}{12}$  of her money left.

- (a) What fraction of her money did she spend on the washing machine?  
Give your answer in the simplest form.

Answer: (a) \_\_\_\_\_ [1]

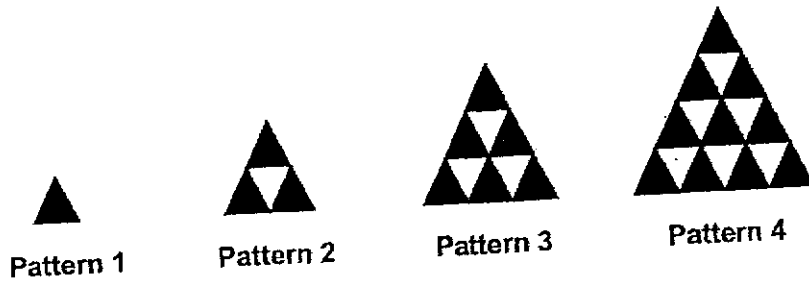
- (b) How much money did she have at first?

Answer: (b) \_\_\_\_\_ [2]

SCORE

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17. Ming En used black and white triangles to form some patterns. The first four patterns are shown below.



The table below shows the number of triangles used to form Pattern 1 to 4.

Pattern number	Number of white triangles	Number of black triangles	Total number of triangles
1	0	1	1
2	1	3	4
3	3	6	9
4	6	10	16
5			

- (a) Complete the table above for Pattern 5. [1]  
 (b) What is the total number of triangles needed to form Pattern 43?

Answer: (b) \_\_\_\_\_ [2]

- (c) How many white triangles are needed to form Pattern 67?

Answer: (c) \_\_\_\_\_ [2]

End of Paper

SCORE

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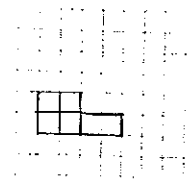
## ANSWER KEY

YEAR : 2024  
 LEVEL : PRIMARY 5  
 SCHOOL : PEI CHUN  
 SUBJECT : MATHEMATICS  
 TERM : EOY

## BOOKLET A

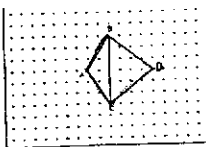
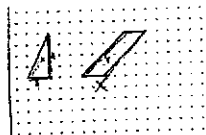
Q1	4	Q2	3	Q3	3	Q4	4	Q5	2
Q6	2	Q7	1	Q8	3	Q9	2	Q10	1
Q11	3	Q12	2	Q13	2	Q14	2	Q15	3

## BOOKLET B

Q16	56	Q17	$\angle m = 360 - 140 - 63 = 220 - 63 = 157^\circ$
Q18	3.79	Q19	Total $\rightarrow$ 1h45min
Q20	Sold $\rightarrow 440 \times \frac{30}{100} = 1320 \div 10 = 132$	Q21	1 min = 7ml x 60 160s = 420ml
Q22	20min	Q23	7 units = 56 1 unit = $56 \div 7 = 8$ Girls $\rightarrow 8 \times 5 = 40$ $40 - 16 = 24$
Q24	Left $\rightarrow \frac{3}{5} \times \frac{2}{3} = \frac{2}{5}$	Q25	a) South - west b) A
Q26	2dg $\rightarrow 99$ 3dg $\rightarrow 216$ $216 - 99 = 117$	Q27	Total $\rightarrow 170 \times 80 = 13600$
Q28	1 hairband = 4 hairclips Hairclips $\rightarrow 12 - 4 = 8$	Q29	a)  b) 5
Q30	$\angle y \rightarrow 68 \div 2 = 34$		

## PAPER 2

Q1	$\frac{1}{4}$	Q2	$35 - 12 = 23$ Area $\rightarrow \frac{1}{2} \times 23 \times 12 = 138\text{cm}^2$
Q3	Siti $\rightarrow 228 \div 4 = 57$	Q4	Each $\rightarrow 7000 \div 8 = 875$

			$875 \div 1000 = 0.875$ $= \frac{7}{8} L$
Q5	1 unit = $28 \div 3 = 8$ Each length $\rightarrow (20 - 8) \div 2 = 6$ $6 + 2 - 1 = 7$ $7 \times 8 = 56m$	Q6	a) $0.07 \times 98 = \$6.86$ b) First 100 copies $100 \times 0.07 = 7$ left $\rightarrow 8.12 - 7 = 1.12$ $1.12 \div 0.04 = 28$ No printed $\rightarrow 100 + 28 = 128$
Q7	$35 \times 0.10 = 3.5$ $45 \times 0.20 = 9$ $120 \times 0.50 = 60$ $40 \times 1 = 40$ Total $\rightarrow 3.5 + 9 + 60 \div 40 = 112.50$	Q8	a) Greatest $\rightarrow 3.06 \div 0.280 = 10$ b) Water left $\rightarrow 3060 - 10 \times 280 = 260ml$
Q9	a) Cost $\rightarrow 22.50 \times 3 = 67.50$ b) $739.50 - 67.50 = 672$ $22.50 + 9.50 = 32$ $672 \div 32 = 21$	Q10	a) $\angle EFH \rightarrow 32^\circ$ b) $\angle XWZ \rightarrow 180 - 117 = 63^\circ$
Q11	a)  b) 	Q12	a) $100 - 45 = 55$ $480 \times \frac{55}{100} = 264$ b) Left $\rightarrow 480 - 105 = 375$ Bed $\rightarrow 375\% = 225$ Used $\rightarrow 264 - 225 = 39$
Q13	a) Spend $\rightarrow$ January b) $\frac{2000}{2400} = \frac{5}{6}$ c) Spend $\rightarrow \frac{1000}{2400} \times 100 = 41.6666667 \approx 42\%$	Q14	a) 3 units = 36 1 unit = $36 \div 3 = 12$ No of pink balloons $\rightarrow 12 \times 5 = 60$ b) $60 - 50 = 10$ $\frac{Y}{24} ; \frac{P}{10} \approx 10:5$ $12 \times 2 = 24$
Q15	Total $\rightarrow 45 \times 18 \times 31 = 25110cm^3$ $25110ml = 25.11L$ Filled $\rightarrow 18.8L$ $25.11 - 18.8 = 6.31L$ $6.93 \div 3 = 2.31L$	Q16	a) Washing machine $\rightarrow \frac{2}{12} = \frac{1}{6}$ b) 1 unit = \$52 At first $\rightarrow 52 \times 12 = \$624$
Q17	a). Number of white triangles : 10 Number of black triangles : 15 Total number of triangles : 25 b). Total $\rightarrow 43 \times 43 = 1849$ c). $67 - 1 = 66$ Pattern 67 $\rightarrow 67 \times 33 = 2211$		

2  
END