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)

---

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?

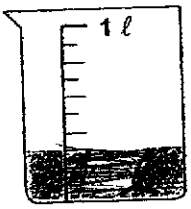
   (1) 1

   (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?

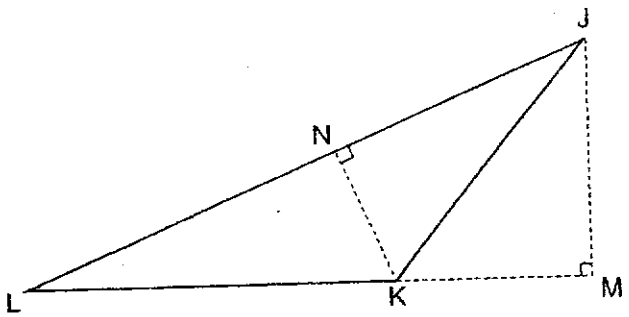
(1) 30%

(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 (°C)	Highest Temperature (°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°C.
Name the cities.

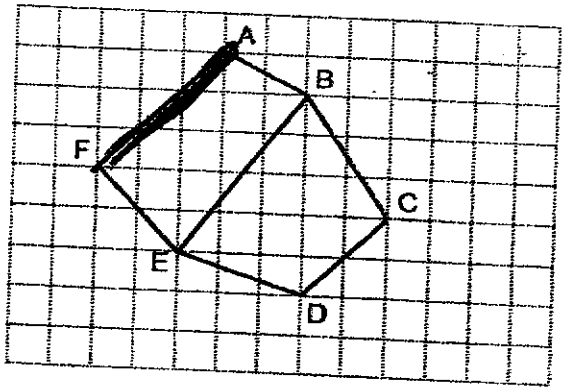
(1) A and D

(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 $\frac{1}{2}$?

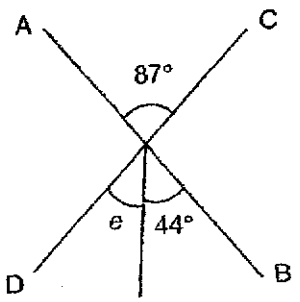
(1) $\frac{4}{9}$

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

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

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

10. AB and CD are straight lines.



Find $\angle e$.

(1) 43°

(2) 44°

(3) 46°

(4) 49°

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.

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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.

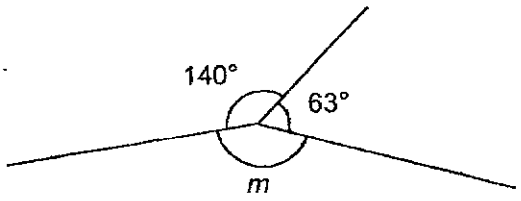
Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

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 : _____ °

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.

Do not write in this space

Answer : _____ h _____ min

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

Answer : _____

SCORE

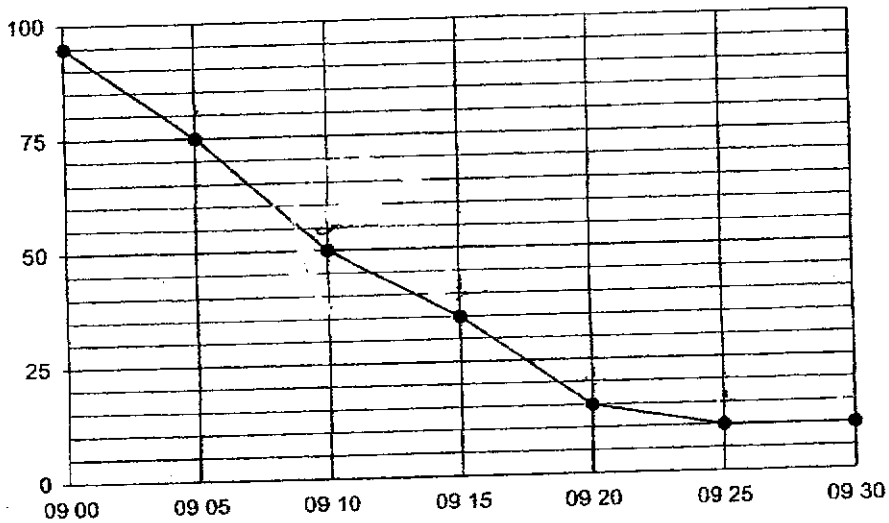
Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

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 in this space

Answer : _____

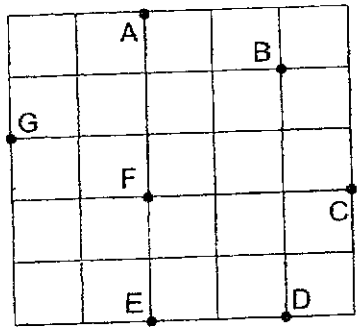
24. Madelyn had $\frac{3}{5}$ kg of flour. She used $\frac{1}{3}$ of the flour for baking. How much flour was she left with?

Answer : _____ kg

SCORE

Do not write in this space

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



(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° 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?

Do not write in this space

Answer : _____

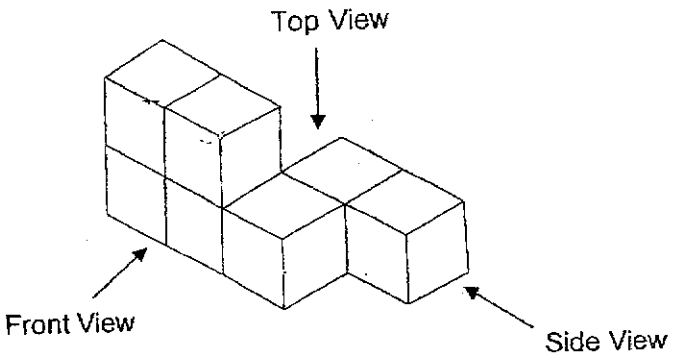
28. The cost of 3 hair bands was the same as the cost of 12 hair clips.
Mei Ling bought 3 hair bands. Jessie bought 1 hair band and some hair clips.
Both of them spent the same amount of money. How many hair clips did Jessie buy?

Answer : _____

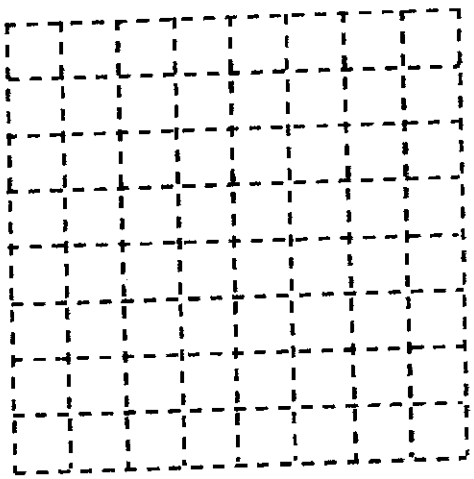
SCORE

Do not write in this space

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



(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?

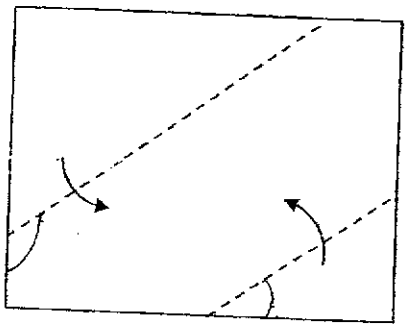
Answer : (b) _____

SCORE

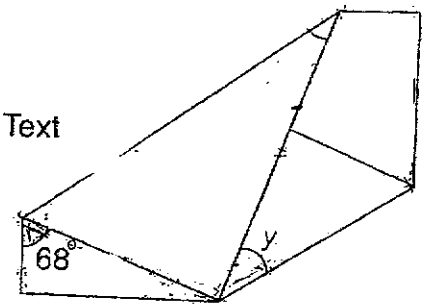
30. Hassan had a rectangular piece of paper. He folded it along the dotted lines without overlapping as shown below.

Do not write in this space

Before folding



After folding



Text

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
TOTAL	/100

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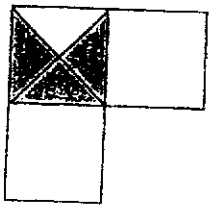
THE USE OF AN APPROVED CALCULATOR IS ALLOWED.

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)

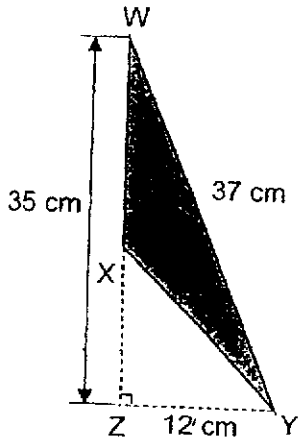
Do not writ in this spac

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: _____ cm^2

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

Answer: _____

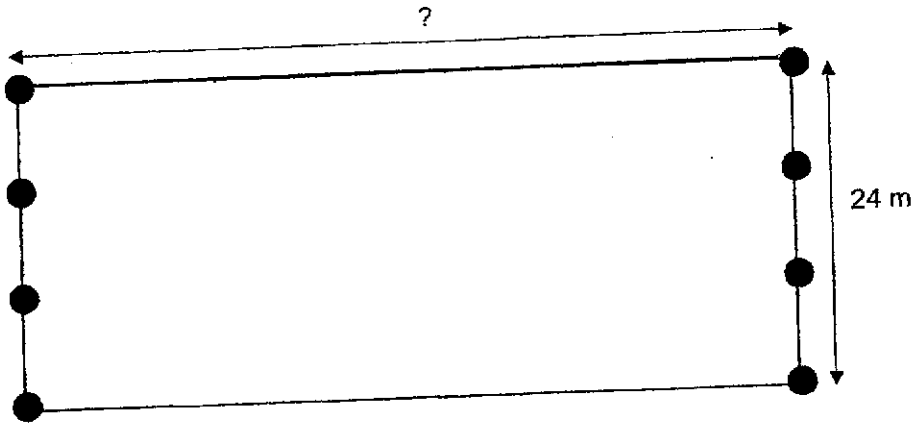
SCORE

Do not write in this space

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.

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)

Do not write in this space

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]

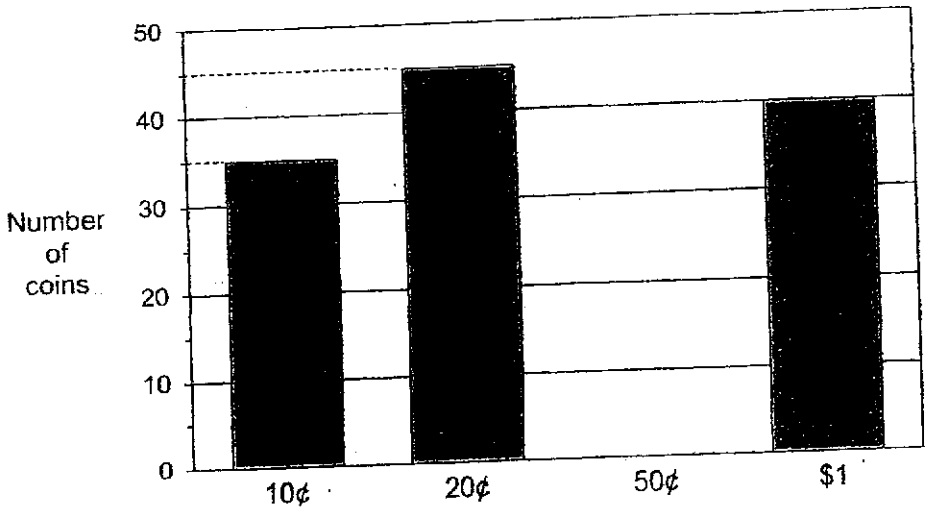
(b) Aminah printed some copies and paid $8.12 for the photocopying services. How many copies did she print?

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.

Do not write in this space

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

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.

Do not write in this space

(a) Find the cost of 3 pillows.

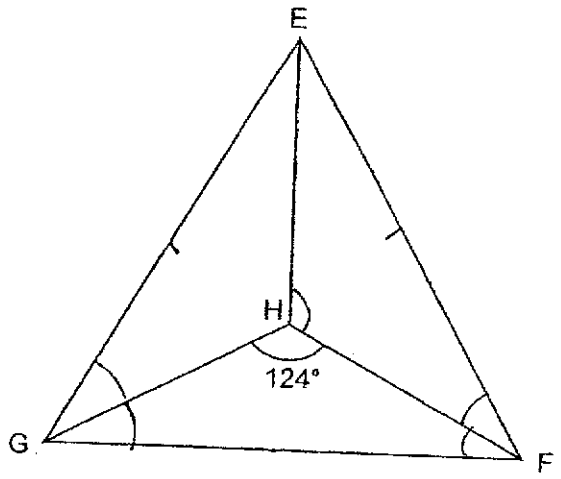
Answer: (a) _____ [1]

(b) How many towels did she buy?

Answer: (b) _____ [3]

SCORE

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

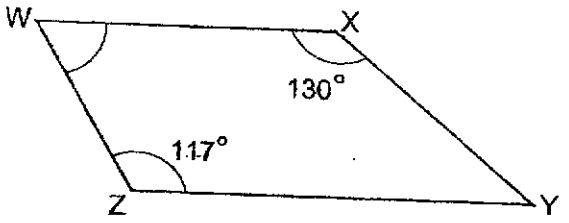


Do not write in this space

(a) Find ∠EFH.

Answer: (a) _____ [2]

(b) In the figure below, WXYZ is a trapezium and WX // ZY.



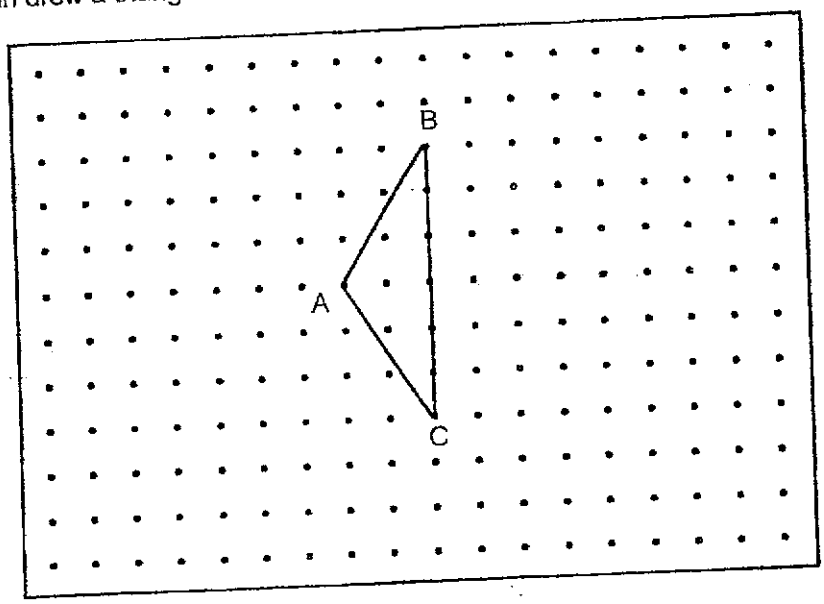
Find ∠XWZ.

Answer: (b) _____ [2]

SCORE

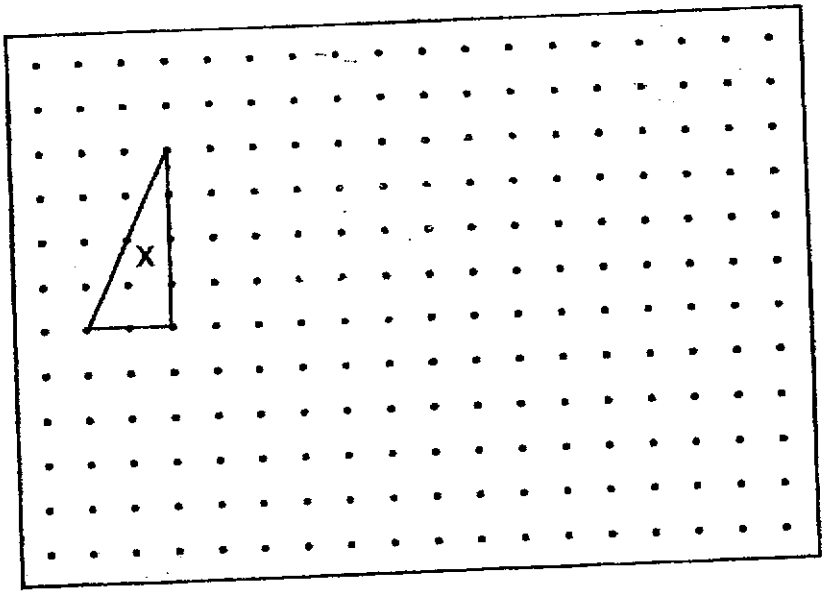
11. Mei Yan drew a triangle ABC in a square grid as shown below.

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?

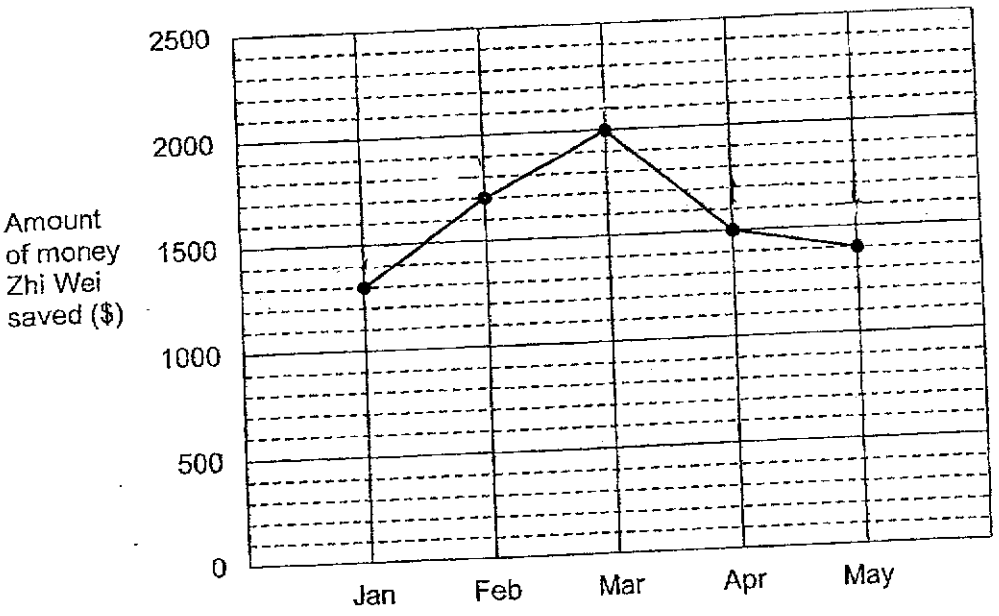
Answer: (b) _____ [3]

Do not write in this space

SCORE

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.

Do not write in this space

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

Answer: (a) _____ [2]

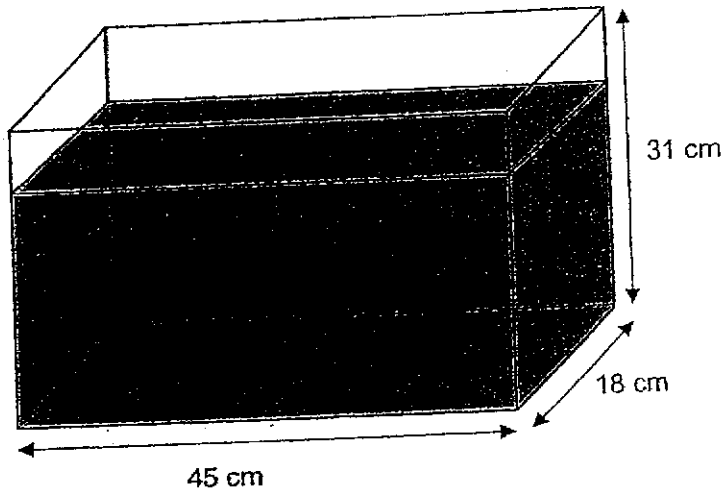
(b) Mr Tan gave away 50 pink balloons. Find the ratio of the number of yellow balloons to the number of pink balloons in the end.
Give your answer in the simplest form.

Answer: (b) _____ [2]

SCORE

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 in this space



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.

Do not write in this space

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

Answer: (a) _____ [1]

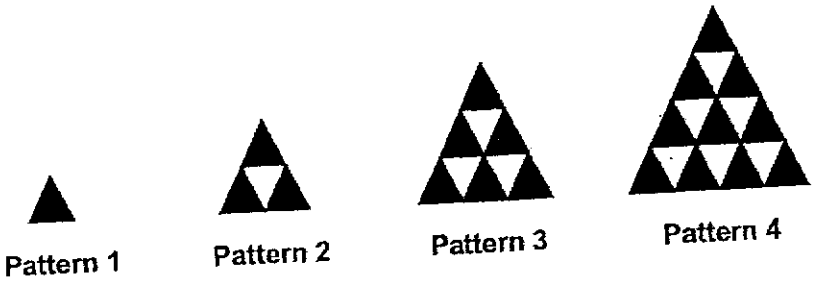
(b) How much money did she have at first?

Answer: (b) _____ [2]

SCORE

Do not write in this space

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



Pattern 1 Pattern 2 Pattern 3 Pattern 4

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

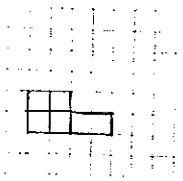
ANSWER KEY

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

BOOKLET A

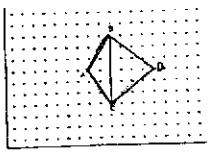
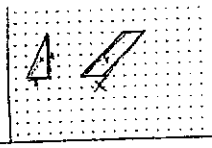
Q1	4	Q2	3	Q3	3	Q4	4	Q5	2
Q6	2	Q7	1	Q8	3	Q9	2	Q10	1
Q11	3	Q12	2	Q13	2	Q14	2	Q15	3

BOOKLET B

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

PAPER 2

Q1	$\frac{1}{4}$	Q2	35 – 12 = 23 Area → $\frac{1}{2}$ x 23 x 12 = 138cm^2
Q3	Siti → 228 ÷ 4 = 57	Q4	Each → 7000 ÷ 8 = 875

			875 ÷ 1000 = 0.875 $= \frac{7}{8}$ L
Q5	1 unit = 28 ÷ 3 = 8 Each length → (20 – 8) ÷ 2 = 6 6 + 2 – 1 = 7 7 x 8 = 56m	Q6	a) 0.07 x 98 = $6.86 b) First 100 copies 100 x 0.07 = 7 left→ 8.12 – 7 = 1.12 1.12 ÷ 0.04 = 28 No printed → 100 + 28 = 128
Q7	35 x 0.10 = 3.5 45 x 0.20 = 9 120 x 0.50 = 60 40 x 1 = 40 Total → 3 :5 + 9 + 60÷ 40 =112.50	Q8	a) Greatest → 3.06 ÷ 0.280 = 10 b) Water left → 3060 – 10 x280 = 260ml
Q9	a) Cost → 22.50 x 3 = 67.50 b) 739.50 – 67.50 = 672 22.50 + 9.50 = 32 672 ÷ 32 = 21	Q10	a) <EFH → 32° b) <XWZ → 180 – 117 = 63°
Q11	a)  b) 	Q12	a) 100 – 45 = 55 480 x $\frac{55}{100}$ = 264 b) Left → 480 – 105 = 375 Bed → 375% = 225 Used → 264 – 225 = 39
Q13	a) Spend → January b) $\frac{2000}{2400} = \frac{5}{6}$ c) Spend → $\frac{1000}{2400}$ x 100 =41.6666667 ≈ 42%	Q14	a) 3 units = 36 1 unit = 36 ÷ 3 = 12 No of pink balloons → 12 x 5 = 60 b) 60 – 50 = 10 12 x 2 = 24 $\frac{Y}{24} : \frac{?}{10} \simeq 10:5$
Q15	Total → 45 x 18 x 31 = 25110cm^3 25110ml = 25.11L Filled → 18.8L 25.11 – 18.8 – 6.31L 6.93 ÷ 3 = 2.31L	Q16	a) Washing machine → $\frac{2}{12} = \frac{1}{6}$ b) 1 unit = $52 At first → 52 x 12 = $624
Q17	a). Number of white triangles : 10 Number of black triangles : 15 Total number of triangles : 25 b). Total → 43 x 43 = 1849 c). 67 – 1 = 66 Pattern 67 → 67 x 33 = 2211		

END