HENRY PARK PRIMARY SCHOOL
2024 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 **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 in the Optical Answer Sheet.

(20 marks)

1. Which of the following is sixty-four thousand and thirty-two in numerals?

(1) 6432

64 032

(2) 64 032

(3) 64 320

(4) 640 032

2. What is the missing number in the number pattern below?

93, 76, 59, [?] , 25, 8

(1) 17

(2) 24

(3) 42

(4) 52

3. The table shows the number of blue pens and red pens in 4 boxes.

Box	Number of pens		
	Blue	Red	Total
A	24	26	50
B	20	28	48
C	23	22	45
D	21	25	46

Which box has the greatest number of pens?

(1) A

(2) B

(3) C

(4) D

4. Which of the following is the same as 10 ℓ 40 mℓ?

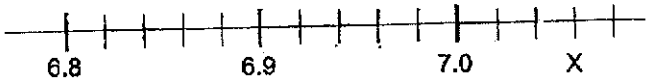
(1) 1040 mℓ

(2) 1400 mℓ

(3) 10 040 mℓ

(4) 10 400 mℓ

5. In the scale below, what is the value of X?



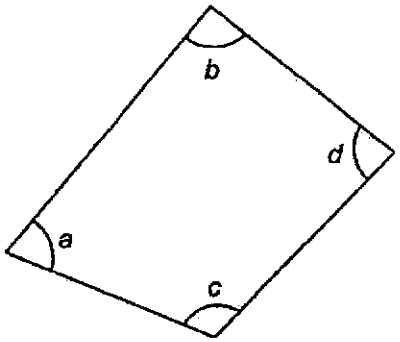
(1) 7.03

(2) 7.06

(3) 7.3

(4) 7.6

6. Which angle is a right angle?



(1) $\angle a$

(2) $\angle b$

(3) $\angle c$

(4) $\angle d$

7. Which fraction is smaller than $\frac{1}{2}$?

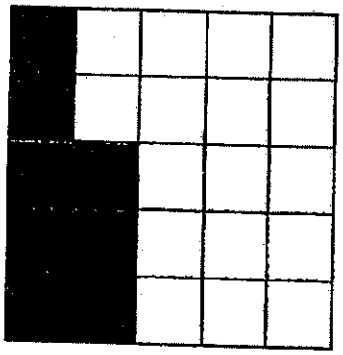
(1) $\frac{6}{9}$

(2) $\frac{3}{7} = \frac{6}{14}$

(3) $\frac{5}{8} = \frac{10}{16}$

(4) $\frac{7}{10}$

8. The figure is divided into 25 equal parts.
What percentage of the figure is shaded?



(1) 5%

(2) 8%

(3) 32%

(4) 40%

9. A machine produces 50 masks in 5 minutes. At this rate, how long will it take to produce 600 masks?

(1) 12 min

(2) 60 min

(3) 120 min

(4) 250 min

10. Andy received $500. He gave $70 to his mother. What percentage of the money did Andy give to his mother?

(1) 14%

(2) 30%

(3) 70%

(4) 86%

11. The average mass of fruit A and fruit B is 6 kg. The mass of fruit C is 9 kg. Find the average mass of the three fruits.

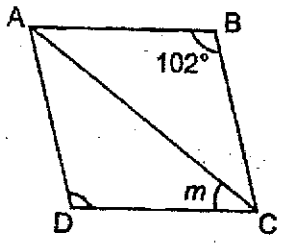
(1) 21 kg

(2) 15 kg

(3) 7 kg

(4) 5 kg

12. In the figure below, ABCD is a rhombus. Find $\angle m$.



(1) 33°

(2) 39°

(3) 51°

(4) 78°

13. Jane, Natalie and Cath share some cards in the ratio 3 : 4 : 5. Natalie has 120 cards. How many cards does Jane have?

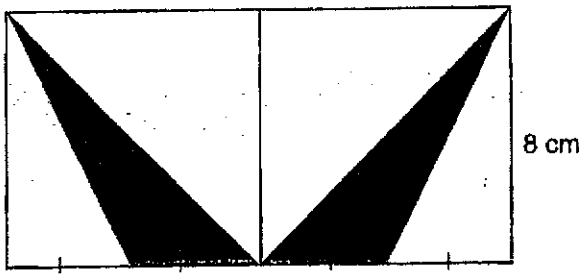
(1) 10

(2) 90

(3) 30

(4) 40

14. The rectangle is made up of 2 identical squares. Find the total area of the shaded triangles.



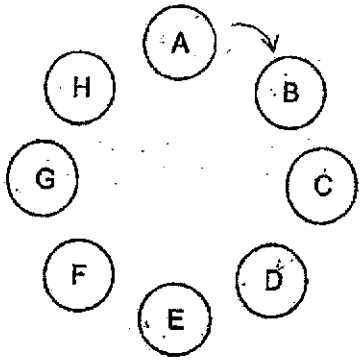
(1) 16 cm^2

(2) 32 cm^2

(3) 64 cm^2

(4) 128 cm^2

15. In a game, 8 children were seated in a circle as shown below.



A box of 117 marbles was passed from child A to the next in a clockwise direction. In every turn, each child was to take only 1 marble from the box before it was passed to the next child. This continued until all the marbles were taken. How many marbles did child D get?

(1) 14

(2) 15

(3) 18

(4) 19

(Go on to BOOKLET B)

HENRY PARK PRIMARY SCHOOL
2024 END OF YEAR EXAMINATION
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET B)

Name: _____( )

Class: Primary 5_____

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)

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

Ans: _____

17. Find the value of $\frac{1}{3} \times \frac{4}{5}$

Ans: _____

18. Find the value of $30 + (22 - 7) \div 5 \times 3$

Ans: _____

19. There are 35 students in a class. There are 5 fewer girls than boys in the class. What is the ratio of the number of boys to the number of girls in the class?

Ans: _____

20. The table shows the local postage rates for sending packages within Singapore.

Mass step not over	Postage
30 g	$0.70
80 g	$1.00
200 g	$1.30
300 g	$1.50

Ravi sent two packages. One package had a mass of 35 g and the other had a mass of 220 g. How much postage did Ravi pay altogether?

Ans: $ _____

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)

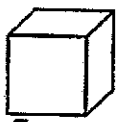
21. Mr Toh had 3.04 kg of rice at first. He used 680 g of it. What is the amount of rice left in kg?

Ans: _____ kg

22. Mr Sim had 240 kettles for sale. He sold 45% of them last week. How many kettles did he sell last week?

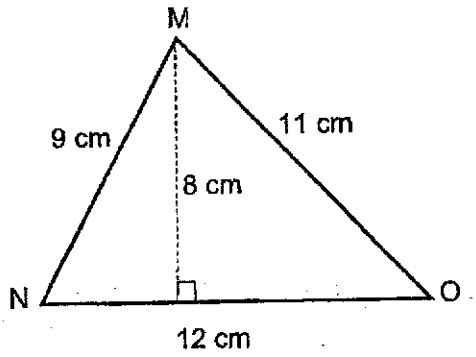
Ans: _____

23. What is the volume of the cube shown below?



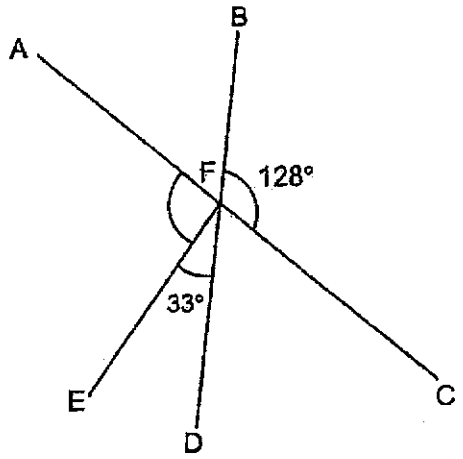
Ans: _____ cm^3

24. Find the area of triangle MNO.



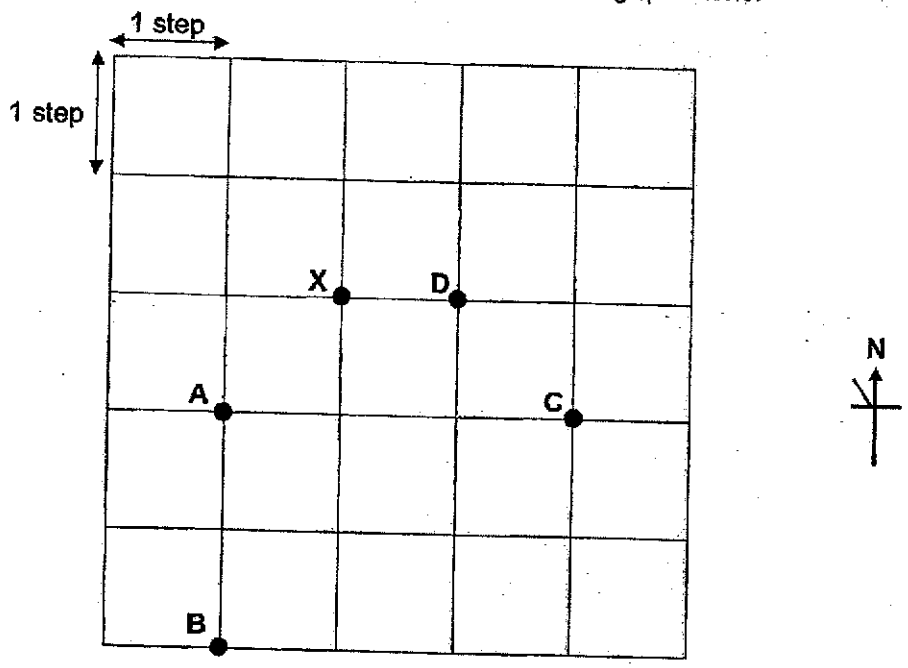
Ans: _____ cm^2

25. In the figure, AFC and BFD are straight lines. Find ∠AFE.



Ans: _____ °

26. Study the diagram below and answer the following questions.



(a) Saina was standing at one of the points in the grid. She walked 2 steps to the north, 3 steps to the east, 1 step to the south and then 2 steps to the west. She ended at point X. Which was her starting point?

Ans: (a) _____

(b) Point __(i)__ is north-west of point __(ii)__.

Ans: (b) (i)_____

(ii)_____

27. The table shows the number of points obtained by 5 groups of students in a quiz.

Groups	Yellow	Orange	Red	Green	Blue
Points	48	10	?	56	64

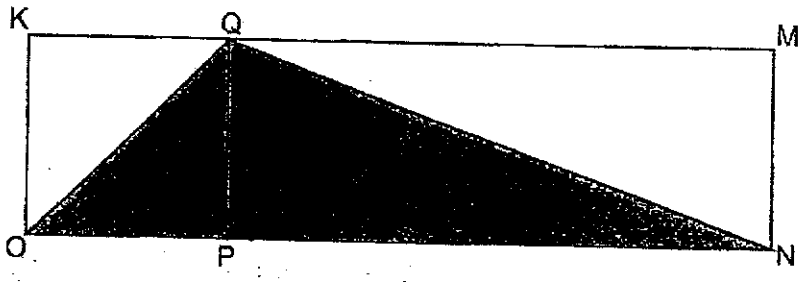
The average number of points obtained by the 5 groups was 60. How many points did the Red group obtain?

Ans: _____

28. Mrs Loh bought some chocolate and vanilla muffins. $\frac{3}{4}$ of her muffins were chocolate and the rest were vanilla. She then bought another 60 vanilla muffins. In the end, $\frac{1}{3}$ of her muffins were chocolate. How many muffins did Mrs Loh have at first?

Ans: _____

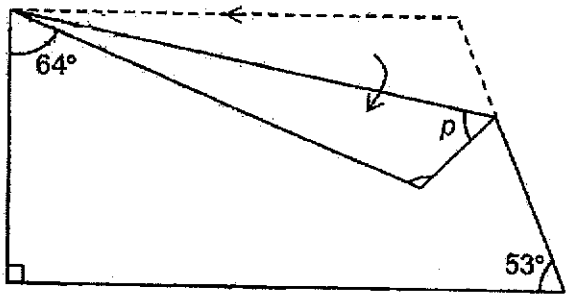
29. KQPO is a square and QMNP is a rectangle. KQM and OPN are straight lines. ON is 4 times as long as OP.



Each statement is either true, false or not possible to tell from the information given. Put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
In rectangle KMNO, the total area of the shaded parts to the total unshaded parts is in the ratio 1 : 1.			
The area of triangle KQO to the area of triangle QMN is in the ratio 1 : 2.			
Triangle OQN has an obtuse angle.			

30. A piece of paper in the shape of a trapezium is folded as shown below. Find $\angle p$.



Ans: _____ °

HENRY PARK PRIMARY SCHOOL
2024 END OF YEAR EXAMINATION
MATHEMATICS
PRIMARY 5

PAPER 2

Name: _____( )

Class: Primary 5_____

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.

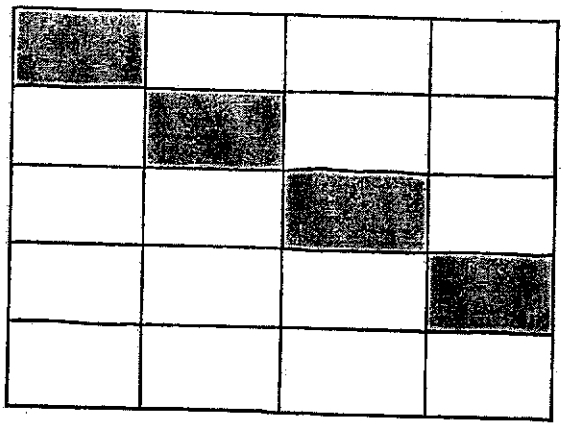
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

1. Tank A contained 24.38 ℓ of water and tank B contained 10.7 ℓ of water. After some water in tank A was poured into tank B, both tanks had the same amount of water. How many litres of water were there in each tank in the end?

Ans: _____ ℓ

2. The figure is made up of 20 identical rectangles.

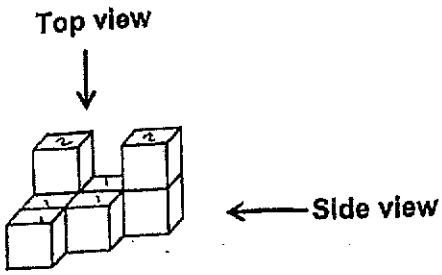


How many more rectangles must be shaded so that 80% of the figure is left **unshaded**?

Ans: _____

Please do not write in the margin.

3. The solid is made up of eight 1-cm cubes.
Use a pencil and ruler to draw the side view of the solid in the grid provided.



Front view

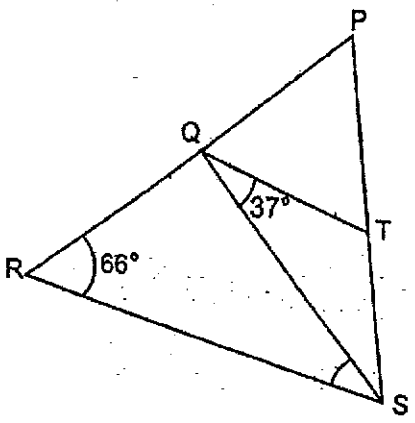
(a) Side View

(b) What is the least number of 1-cm cubes that must be added to the solid to form a cuboid?

Ans: _____ [1]

Please do not write in the margin.

4. In the figure, PQR and PTS are straight lines. PQT is an equilateral triangle. Find $\angle QSR$.



Ans: _____ °

5. The first 18 shapes of a pattern found on a strip of ribbon is shown below.

There were 50 stars on the strip of ribbon. What was the greatest possible number of shapes on the strip of ribbon?

Ans: _____

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)

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6. A box of pencils was shared equally among 40 children. 4 of them shared all their pencils with the rest of the children. As a result, the rest of the children received 2 more pencils each. How many pencils were there in the box?

Ans: _____ [3]

7. The usual price of a tour package to Korea was $2380. During a promotion, Mrs Lee bought the tour package at a discount of 15%. In addition, she had to pay a 9% GST on the discounted price. How much did she pay for the tour package?

Ans: _____ [3]

8. Fred took a taxi from home to his office. His taxi fare was based on the charges shown.

First 1 km	$4.40
Every additional 400 m or less	$0.26
Every 45 seconds of waiting or less	$0.26

The taxi stopped once at a traffic light for 1.5 min and travelled a total distance of 5.8 km to reach Fred's office. How much was his taxi fare?

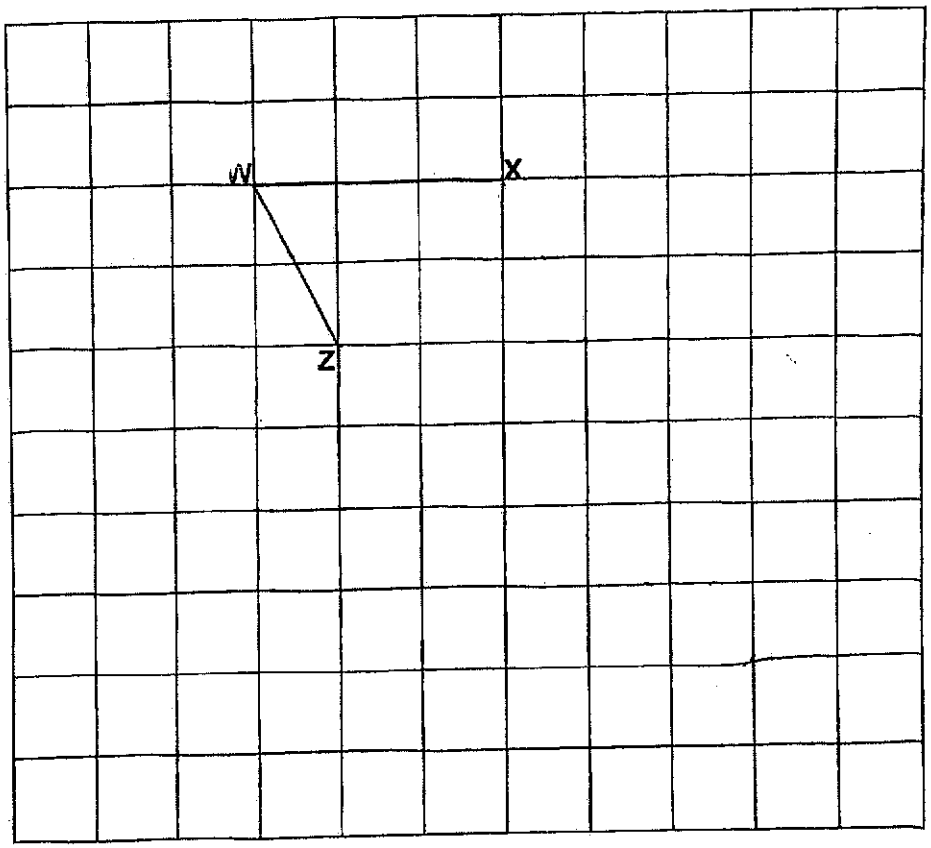
Ans: _____ [3]

9. In the square grid below, WX and WZ are two sides of trapezium WXYZ.

(a) Measure and write down the size of ∠ZWX.

Ans: (a)_____ [1]

(b) Complete the drawing of trapezium WXYZ, where XY is parallel to WZ and is 3 times the length of WZ.
Use a pencil to draw your diagram and label it clearly.



[2]

10. Money was collected from 30 students and 1 form teacher for a class party. \$15 was collected each student while \$75 was collected from the form teacher. $\frac{3}{7}$ of the total amount collected was spent on buying food items. $\frac{1}{12}$ of the remainder was spent on chocolates. After spending some money on drinks, there was \$98 left.

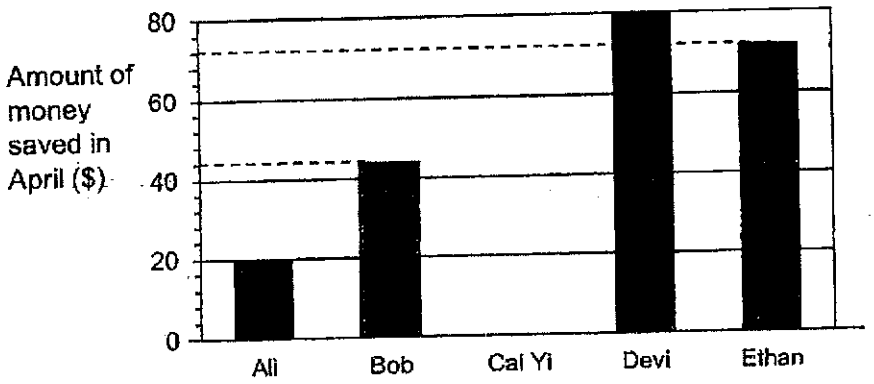
(a) What was the total amount of money collected?

Ans: (a)_____ [2]

(b) How much money was spent on drinks?

Ans: (b)_____ [3]

11. The bar graph shows the amount of money five students saved from their pocket money in April.

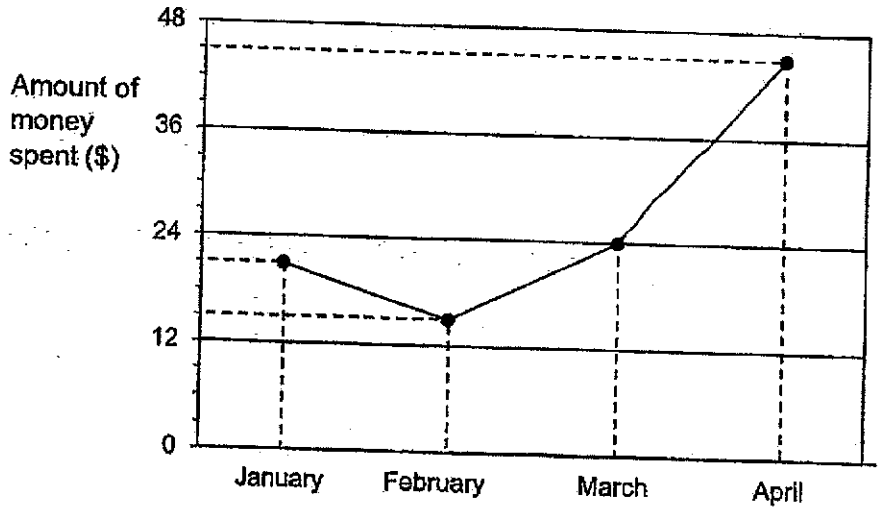


(a) What was the average amount of money saved by the students in April?

Ans: (a) _____ [2]

Go on to the next page for Q11b.

(b) The line graph shows how Cai Yi spent her pocket money from Jan to April.



Cai Yi gets the same amount of pocket money every month.
What percentage of her pocket money did she save in February?
Give your answer correct to 1 decimal place.

Ans: _____ [2]

12. The first three figures of a pattern are shown.

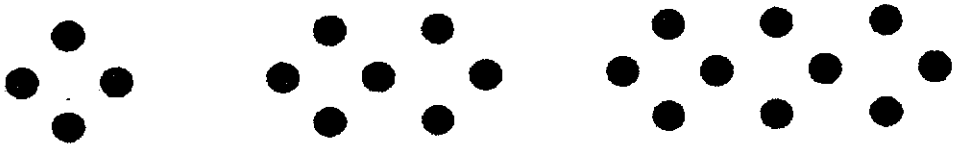


Figure 1 Figure 2 Figure 3

The table shows the number of dots used to form each figure.

Figure	Number of dots
1	4
2	7
3	10
4	?

(a) How many dots are used to form figure 4?

Ans: (a)_____[1]

(b) How many dots are used to form figure 30?

Ans: (b)_____[2]

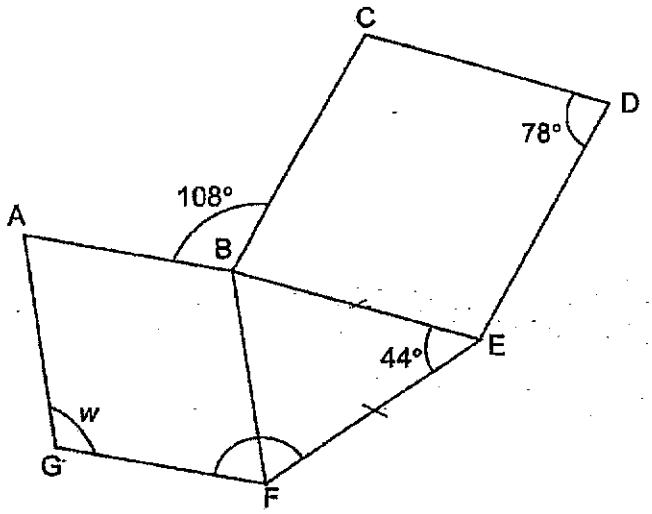
(c) Which figure is formed using 457 dots?

Ans: (c)_____[2]

13. The total mass of a box with 120 similar rulers is 1.9 kg. The mass of the same box with 150 similar pencils is 6.7 kg. The mass of a pencil is 4 times the mass of a ruler. What is the mass of the empty box in kg?

Ans: _____ [3]

14. In this diagram, ABFG and BCDE are parallelograms.



(a) Find $\angle w$.

Ans: (a)_____[2]

(b) Find $\angle GFE$.

Ans: (b)_____[2]

15. The ratio of the number of boys to the number of girls at an amusement park was 5 : 7. After 60 boys entered the amusement park, there were equal number of boys and girls.

(a) How many boys were there in the amusement park at first?

Ans: (a) _____ [1]

(b) In October, after a discount of 25%, the entrance ticket to the amusement park was $54. A further discount of $4.50 was given to a child who was born in October. What is the total percentage discount given to a child who was born in October?

Ans: (b) _____ [2]

16. There were some adults and children at game stations X and Y. $\frac{2}{5}$ of the children at game station X were boys and $\frac{3}{4}$ of the children at game station Y were girls. There were twice as many children at station Y than at station X.

(a) What fraction of the total number of children in both game stations were girls? Give your answer in the simplest form.

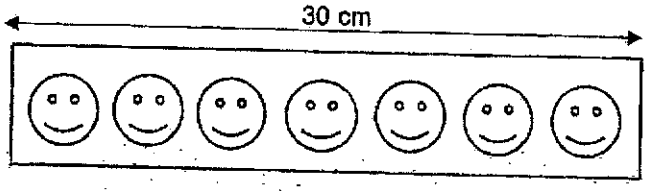
Ans: (a) _____ [2]

(b) $\frac{3}{5}$ of all the participants at game stations X and Y were adults. On average, each adult won 38 coins from the games while each child won 62 coins. A total of 42 840 coins were won by all the participants. How many of the participants were children?

Ans: (b) _____ [3]

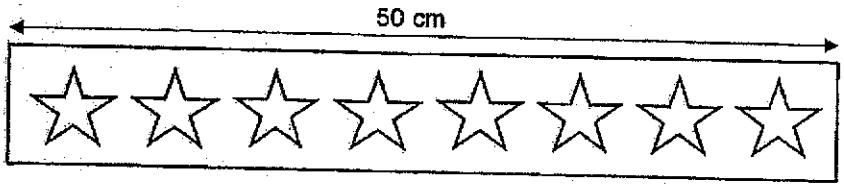
17. Amelia had two rolls of stickers of the same length but different designs. She cut the first roll of stickers into equal pieces of 30 cm and there were 7 smiley faces on each piece of stickers as shown below.

First roll of stickers



She then cut the second roll of stickers into equal pieces of 50 cm and there were 8 stars on each piece of stickers as shown.

Second roll of stickers



After she finished cutting both rolls of stickers, there were 132 more smiley faces than stars. Find the length of one roll of stickers.

Ans: _____ [4]

End of Paper 2

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

PAPER 1

BOOKLET A

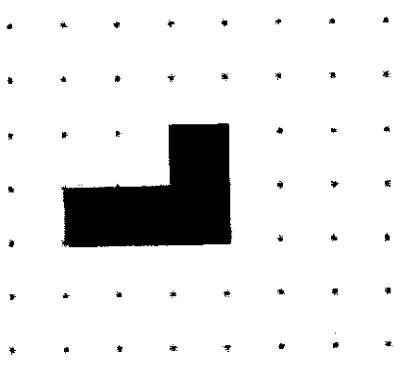
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
2	3	1	3	2	2	2	3
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
2	1	3	2	2	2	2	

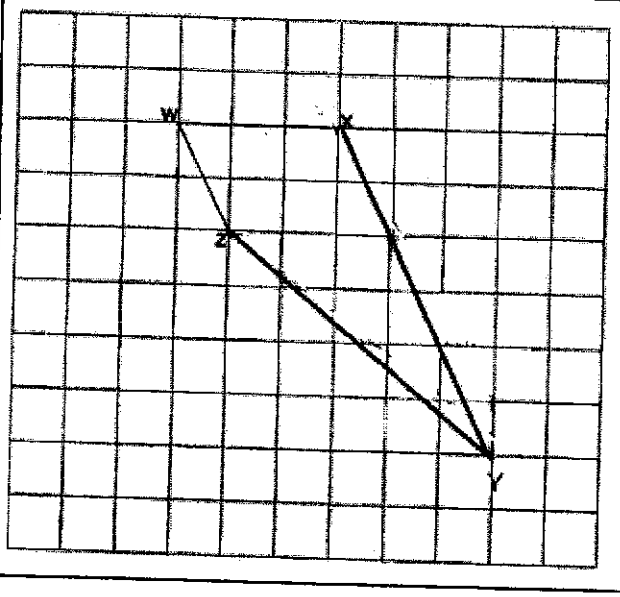
BOOKLET B

Q16	56
Q17	$\frac{4}{15}$
Q18	39
Q19	4:3
Q20	$2.50
Q21	3.04kg - 0.68kg = 2.36kg
Q22	240 x 45% = 108
Q23	7 x 7 x 7 = 343
Q24	$\frac{1}{2}$ x 12 x 8 = 48
Q25	128° - 33° = 95°
Q26 (a)	A
Q26 (b)	(i) D (ii) C

<table>
<tr><td>Q27</td><td>48 + 10 + 56 + 64 = 178
60 x 5 = 300
300 - 178 = 122</td></tr>
<tr><td>Q28</td><td>60 ÷ 5 = 12
12 x 4 = 48</td></tr>
<tr><td>Q29</td><td><table><tr><th>True</th><th>False</th><th>Not possible to tell</th></tr><tr><td>✓</td><td></td><td></td></tr><tr><td></td><td>✓</td><td></td></tr><tr><td>✓</td><td></td><td></td></tr></table></td></tr>
<tr><td>Q30</td><td>90° - 64° = 26°
26° ÷ 2 = 13°
360° - 90° - 90° - 53° = 127°
180° - 12° - 127° = 40°</td></tr>
</table>

PAPER 2

<table>
<tr><td>Q1</td><td>24.38 + 10.7 = 35.08
35.08 ÷ 2 = 17.54</td></tr>
<tr><td>Q2</td><td>30% x 20 = 6
20 - 6 = 14
14 - 4 = 10</td></tr>
<tr><td>Q3 (a)</td><td>  </td></tr>
</table>

Q3 (b)	10
Q4	180° - 37° - 60° = 83° 180° - 86° - 83° = 31°
Q5	50 ÷ 3 = 16R2 (16 x 6) + 4 = 100
Q6	40 - 4 = 36 36 x 2 = 72 72 ÷ 4 = 18 18 x 40 = 720
Q7	8% x $2380 = $2023 109% x $2023 = $2205.07
Q8	<u>Distance charge</u> 5.8km - 1km = 4.8 4.8km = 4800m 4800m ÷ 400 = 12 12 x $0.26 = $3.12 <u>Waiting time</u> 1.5min ÷ 45 = 2 2 x $0.26 = $0.52 Total: $4.40 + $3.12 + $0.52 = $8.04
Q9 (a)	63°
Q9 (b)	
Q10 (a)	30 x $15 = 450

	$450 + $75 = 525
Q10 (b)	$525 ÷ 21 = $25 $25 x 11 = $275 $275 - $98 = $177
Q11 (a)	$20 + $44 + $80 + $72 = $216 $216 ÷ 5 = $43.20
Q11 (b)	$45 - $15 = $30 $\frac{30}{45}$ x 100 = 66.7%
Q12 (a)	10 + 3 =13
Q12 (b)	30 x 3 = 90 90 + 1 = 91
Q12 (c)	457 - 1 = 456 456 ÷ 3 = 152
Q13	6.7kg - 1.9kg = 4.8kg 150 - 30 = 120 150 - 30 = 120 120 pencils = 4.8kg 1 pencil = 0.04kg 0.04kg x 150 = 6 6.7kg - 6kg = 0.7kg
Q14 (a)	180° - 44° = 136° 136° ÷ 2 = 68° 360° - 108° - 68° - 78° = 106°
Q14 (b)	360° - 106° -106° = 148° 148° ÷ 2 = 74° 74° + 68° = 142°
Q15 (a)	7 - 5 = 2 2u = 60 1u = 30 30 x 5 = 150
Q15 (b)	$54 - $4.50 = $49.50 75% = $54 25% = $18 $18 x 4 = $72

	$\frac{22.5}{72}$ x 100 = 31.25%
Q16 (a)	6 + 15 = 21 10 + 20 = 30 $\frac{21}{30} = \frac{7}{10}$
Q16 (b)	62 x 2 = 124 38 x 3 = 114 114 + 124 = 238 42840 ÷ 238 = 180 180 x 2 = 360
Q17	150cm = 24 stars 150cm = 35 smiley face 35 - 24 = 11 132 ÷ 11 = 12 12 x 150 = 1800cm