NAN HUA PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2024

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 : 24 October 2024

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 The value of the digit 9 in 92 608 is _____.

(1) 90

(2) 900

(3) 9000

(4) 90 000

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

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

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

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

(4) $\frac{6}{11}$

3 Round 5.825 to 2 decimal places.

(1) 5.80

(2) 5.82

(3) 5.83

(4) 5.90

4 Which of the following is a common multiple of 4 and 10?

(1) 14

(2) 16

(3) 20

(4) 30

5 What is the value of $36 + 180 \div (2 \times 7 - 5)$?

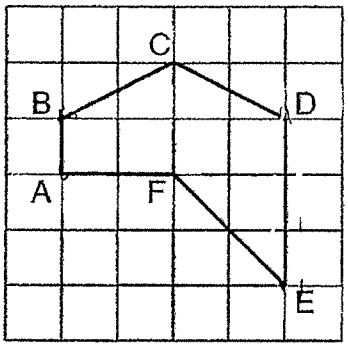
(1) 24

(2) 54

(3) 56

(4) 81

6 Which pair of lines are parallel?



(1) AB and BC

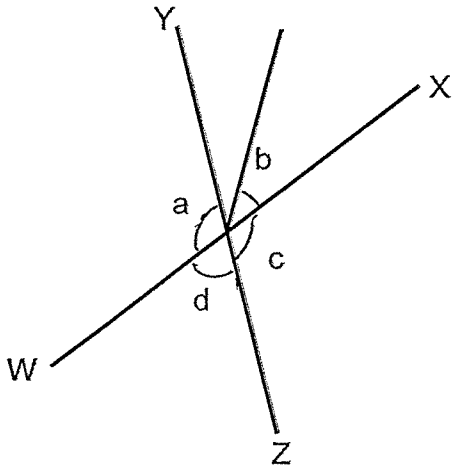
(2) BA and AF

(3) CD and FE

(4) ED and AB

7 In the figure below, WX and YZ are straight lines.

Which two angles are equal?



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

(2) $\angle a = \angle d$

(3) $\angle b = \angle c$

(4) $\angle b = \angle d$

8 Jonathan had \$300. He spent \$60. What percentage of the money did he spend?

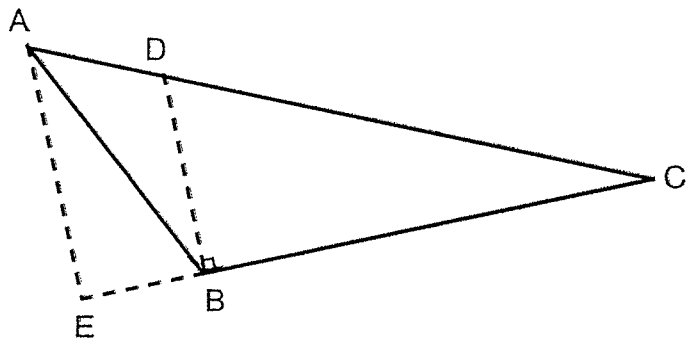
(1) 20%

(2) 40%

(3) 60%

(4) 80%

9 Which of the following is the height of Triangle ABC given that the base is BC?



(1) AB

(2) AE

(3) BD

(4) AC

10 Which of the following is the same as 60 kg 70 g?

(1) 6070 g

(2) 6700 g

(3) 60 070 g

(4) 60 700 g

11 A machine can print one set of cards in 20 minutes. How many sets of cards can the same machine print in 4 hours?

(1) 5

(2) 12

(3) 3

(4) 20

12 Charles had five times as much money as Ken at first. After Charles spent $50 and Ken received another $62, they had an equal amount of money. How much money did Ken have at first?

(1) $28

(2) $56

(3) $90

(4) $140

13 Study the following pattern.

N H P S N H P S N H

Which is the 73rd letter in the sequence?

(1) N

(2) H

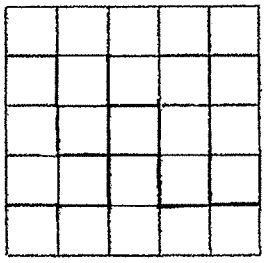
(3) P

(4) S

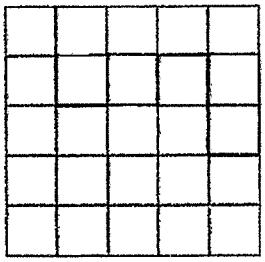
14 Each of the solid figures below is made up of 8 cubes.

Which solid figure has the following front and top views?

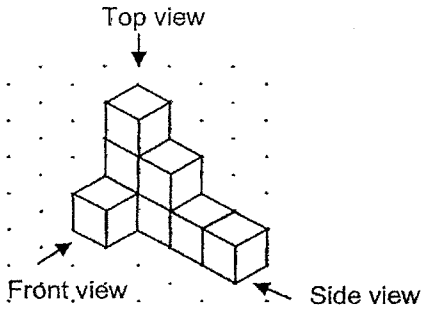
Front view



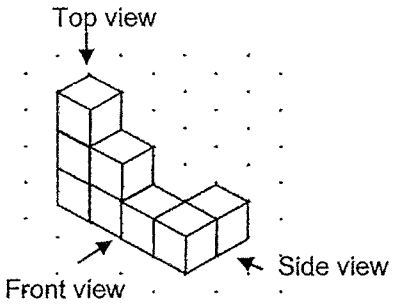
Top view



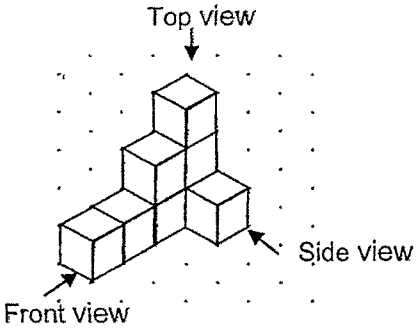
(1)



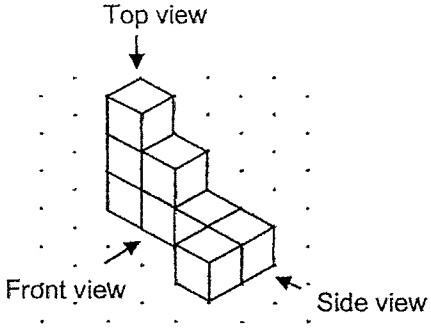
(2)



(3)



(4)



15 The table shows the local postage rates for sending letters within Singapore.

Mass step not over	Postage
20 g	$0.32
40 g	$0.39
100 g	$0.60
Every additional 100 g	$1.00

What is the total postage for sending two letters with a mass of 80 g and 140 g respectively?

(1) $1.59

(2) $1.77

(3) $2.20

(4) $2.32

NAN HUA PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2024

PRIMARY FIVE

MATHEMATICS

PAPER 1

(BOOKLET B)

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. 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 : 24 October 2024 **Parent's Signature :** _____

This booklet consists of 10 printed pages.

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 Shernice listed the factors of 28 below.

1, 2, 14, 28

She missed out two factors. What were the two missing factors?

Ans : _____ and _____

17 Find the value of 3 ÷ 8. Express your answer as a decimal.

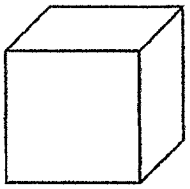
Ans: _____

18 Find the value of 0.22 x 70.

Ans: _____

Please do not write in the margin

19 What is the volume of the cube shown below?



Ans: _____ cm^3

20 Mr Loh had 260 laptops for sale. He sold 35% of them last week.
How many laptops did he sell last week?

Ans : _____

Please do not write in the margin

(Go on to the next page)

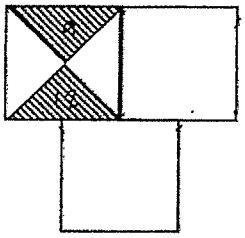
Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For question which require units, give your answers in the units stated.

(20 marks)

21 **(a)** Find the value of $\frac{2}{9} \times 4$.

Ans : (a)_____

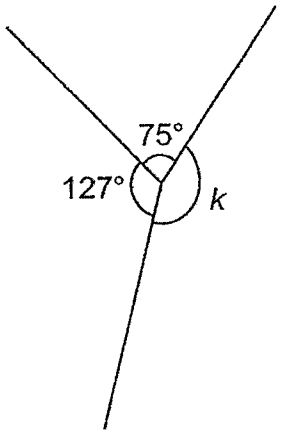
(b) The figure is made up of 3 identical squares. One square is divided equally into 4 triangles. What fraction of the figure is shaded?



Ans : (b)_____

Please do not write in the margin

22 **(a)** Find $\angle k$ in the figure shown.



Ans : (a)_____ °

(b) The table shows the time taken by four boys to complete solving a Rubik's cube.

Name	Time in seconds
Ismail	12.5
Farid	10.5
Daniel	12.8
Meng	11.2

Who was first to solve the Rubik's cube?

Ans : (b)_____

Please do not write in the margin

(Go on to the next page)

23 **(a)** Three volumes are given below. Arrange the following volumes from the largest to the smallest.

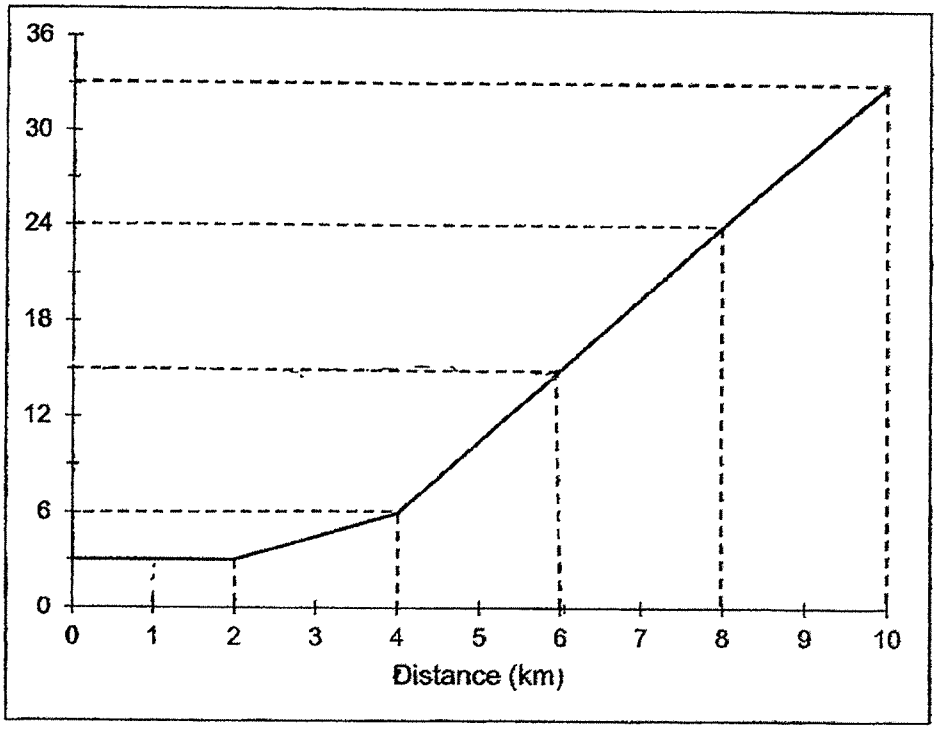
5.8 ℓ 5 ℓ 90 mℓ $5\frac{1}{4}\ell$

Ans: (a) _____, _____, _____
Largest Smallest

(b) A machine can fill up 7 bottles per second. At this rate, how many bottles can the machine fill up in 1 minute?

Ans : (b)_____

24 The graph shows the fare a taxi company charges for the first 10 kilometres.



(a) How much is the taxi fare for the first kilometre?

Ans : (a) $_____

(b) Jane paid $15 for her taxi ride. What was the distance she travelled?

Ans : (b)_____ km

Please do not write in the margin

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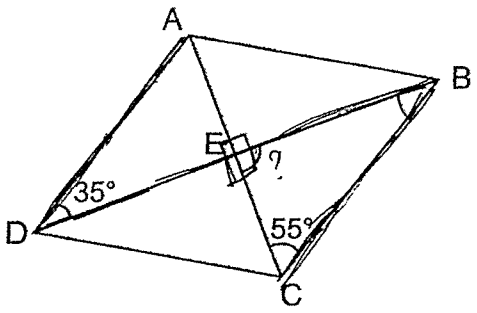
25 In the figure below, ABCD is a rhombus. $\angle ADB = 35°$ and $\angle BCE = 55°$.

Find $\angle BEC$.



Ans : _____ °

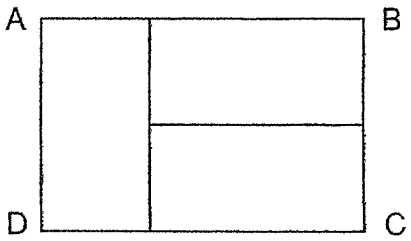
26 Aly, Billy and Chandra shared a sum of money in the ratio 6 : 4 : 9.

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

		True	False	Not possible to tell
(a)	Billy's share was $\frac{2}{3}$ of Aly's share.			
(b)	Chandra's share was \$5 more than Billy's share.			

Please do not write in the margin

27 The figure below shows a rectangle ABCD which is made up of three identical rectangles. The area of rectangle ABCD is 54 cm². The length and breadth of the rectangles are whole numbers. Find the perimeter of rectangle ABCD.



Ans : _____ cm

28 Sara deposited $2400 into her bank account. The bank paid interest of 2% per year. How much interest will Sara earn at the end of 1 year?

Ans : $_____

Please do not write in the margin

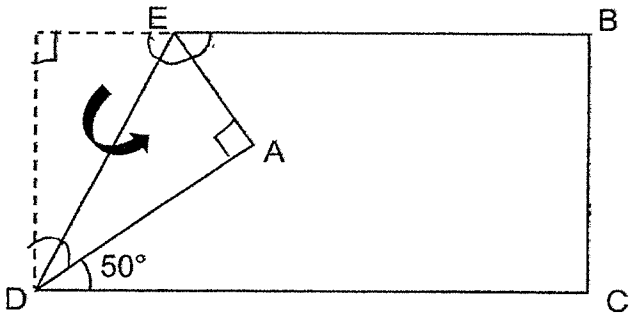
(Go on to the next page)

29 Joan took 2 h 45 min to complete fixing a puzzle. She completed the puzzle at 12.30 p.m., at what time did she start fixing the puzzle? Give your answer in 24-hour clock.

Ans : _____

30 In the figure below, a rectangular piece of paper is folded at corner A.

Given that ∠ADC = 50°, find ∠AEB.



Ans : _____ °

Please do not write in the margin

End of Paper

NAN HUA PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2024

PRIMARY FIVE

MATHEMATICS

PAPER 2

Time: 1 hour 30 minutes

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. 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 allowed.

Marks Obtained

Section	Maximum Marks	Actual Marks
Paper 2	55	

Name : _____ (

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

Date : 24 October 2024

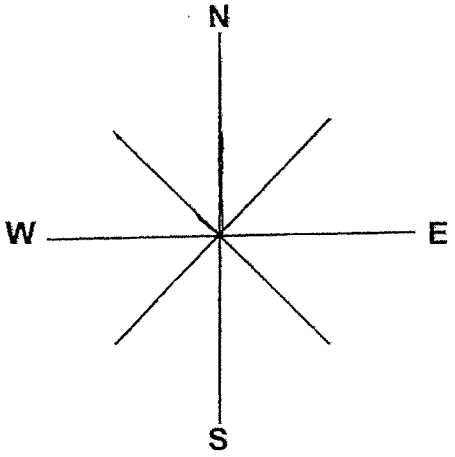
This booklet consists of 15 printed pages and 1 blank page.

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 John, Ken and Louis share some marbles. Ken has 24 marbles. He has 12 marbles less than John. Louis has twice as many marbles as John. Find the ratio of John's number of marbles to Ken's number of marbles to Louis' number of marbles.

Ans: _____

2 Jane is facing north-west now. What direction will she be facing after she makes a 315° anticlockwise turn?



Ans: _____

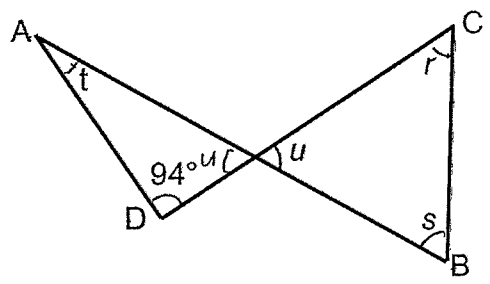
Please do not write in the margin.

3 Ron and Steve had $394 altogether. Ron and Terry had $363 altogether. Steve and Terry had $401 altogether. How much money did they have altogether?

Ans: $_____

4 In the diagram below, AB and CD are straight lines.

Given that $\angle r + \angle s + \angle t = 142°$, find $\angle u$.

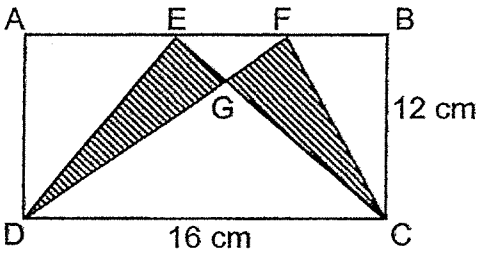


Ans: _____°

Please do not write in the margin.

(Go on to the next page)

5 Two triangles CDE and CDF are drawn in rectangle ABCD. The area of triangle CDG is 72 cm². Find the total area of the shaded parts.

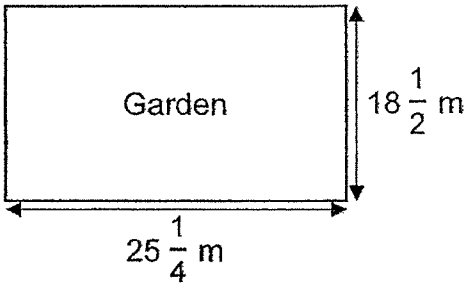


Please do not write in the margin.

Ans: _____cm²

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 A rectangular garden is $25\frac{1}{4}$ m long and $18\frac{1}{2}$ m wide. A fence is built along its 4 edges. Each meter of fencing costs \$32. Find the total cost of fencing.



Ans: _____ [3]

7 12 children scored a total of 208 points in a game. 5 of the children scored an average of 15 points. What was the average points scored by the remaining children?

Ans: _____ [3]

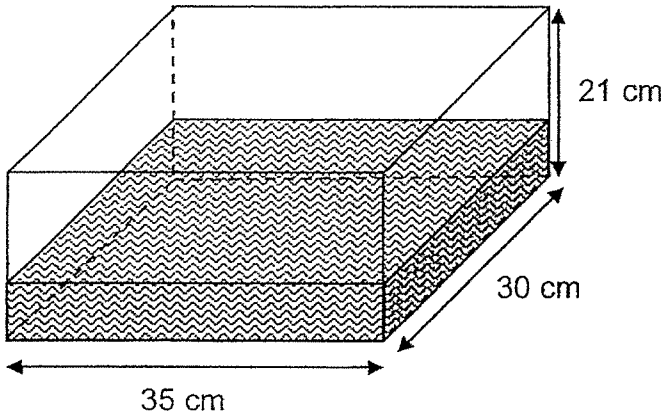
Please do not write in the margin.

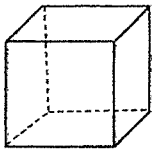
(Go on to the next page)

8 Samuel had a collection of cards. He gave $\frac{2}{9}$ of his cards to his brother and shared the rest among his two friends, Lionel and Ali in the ratio 2 : 5. Ali received 42 more cards than Lionel. How many cards did Samuel have at first?

Ans: _____ [3]

9 A rectangular tank measuring 35 cm long, 30 cm wide and 21 cm high is $\frac{1}{3}$ - filled with water. The water inside the tank is used to fill a smaller cubical container of edge 11 cm completely. How much water is left in the rectangular tank? Give your answer in litres and millilitres.





Ans: _____ [4]

Please do not write in the margin.

10 Lydia and Mary have a total of 129 coins. Lydia has 35 coins more than Mary.

(a) How many coins does Mary have?

Ans: (a) _____ [1]

(b) Mary only has 50-cent coins or 20-cent coins. The total amount of money she has is $15.10. How many 50-cent coins does Mary have?

Ans: (b) _____ [3]

Please do not write in the margin.

11 At Panda Bakery, egg tarts are sold at $2.20 each. Mrs Tay has just enough money to buy 45 egg tarts. The bakery is having the following promotion now. How many more egg tarts can she buy with the same amount of money?

Ans: _____ [4]

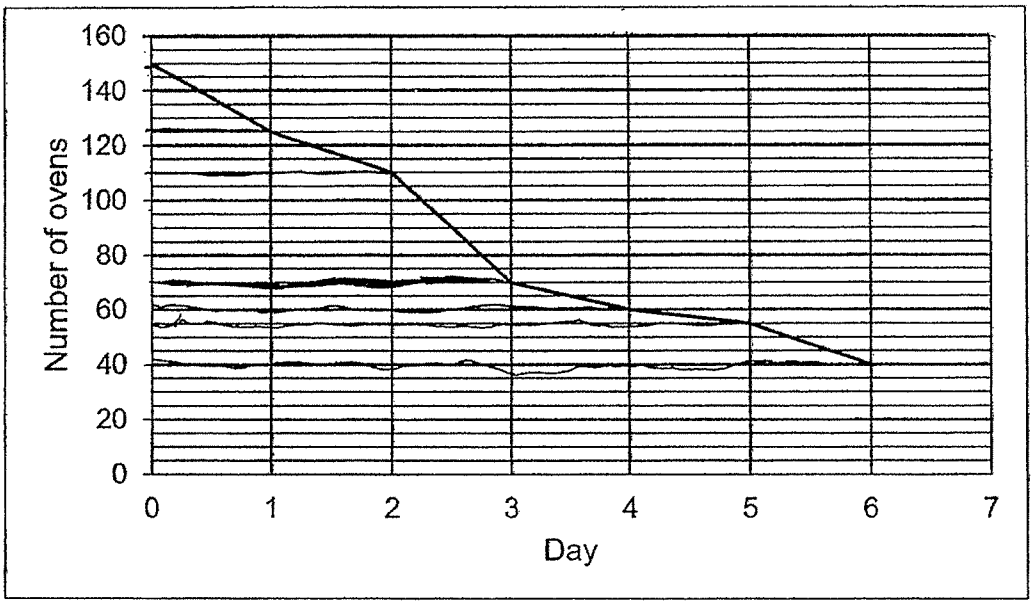
Please do not write in the margin.

12 David gets $15 more allowance than Edward each week. Every week, each of them spends $25 and saves the rest. When David saves $216, Edward saves $96. How much allowance does David get each week?

Ans: _____ [4]

Please do not write in the margin.

13 A departmental store had 150 ovens for sale during a 7-day period.
The line graph shows the number of ovens left unsold at the end of each day. The number of ovens left unsold at the end of Day 7 was not shown.



(a) The average number of ovens sold over the 7-day period was 20.
How many ovens were sold on Day 7?

Ans: _____ [2]

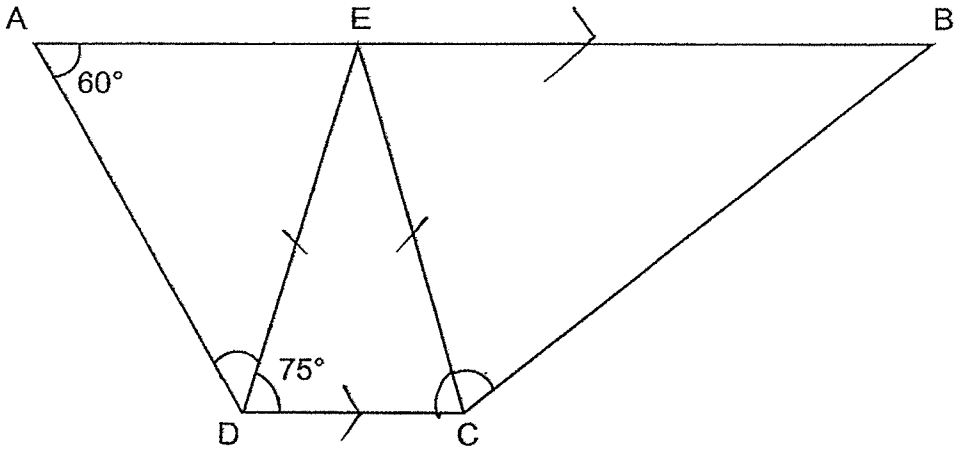
(b) On which day was the greatest number of ovens sold?

Ans: _____ [1]

Please do not write in the margin.

(Go on to the next page)

14 In the figure, ABCD is a trapezium with AB parallel to DC. CDE is an isosceles triangle and ED = EC.



(a) Find ∠ADE.

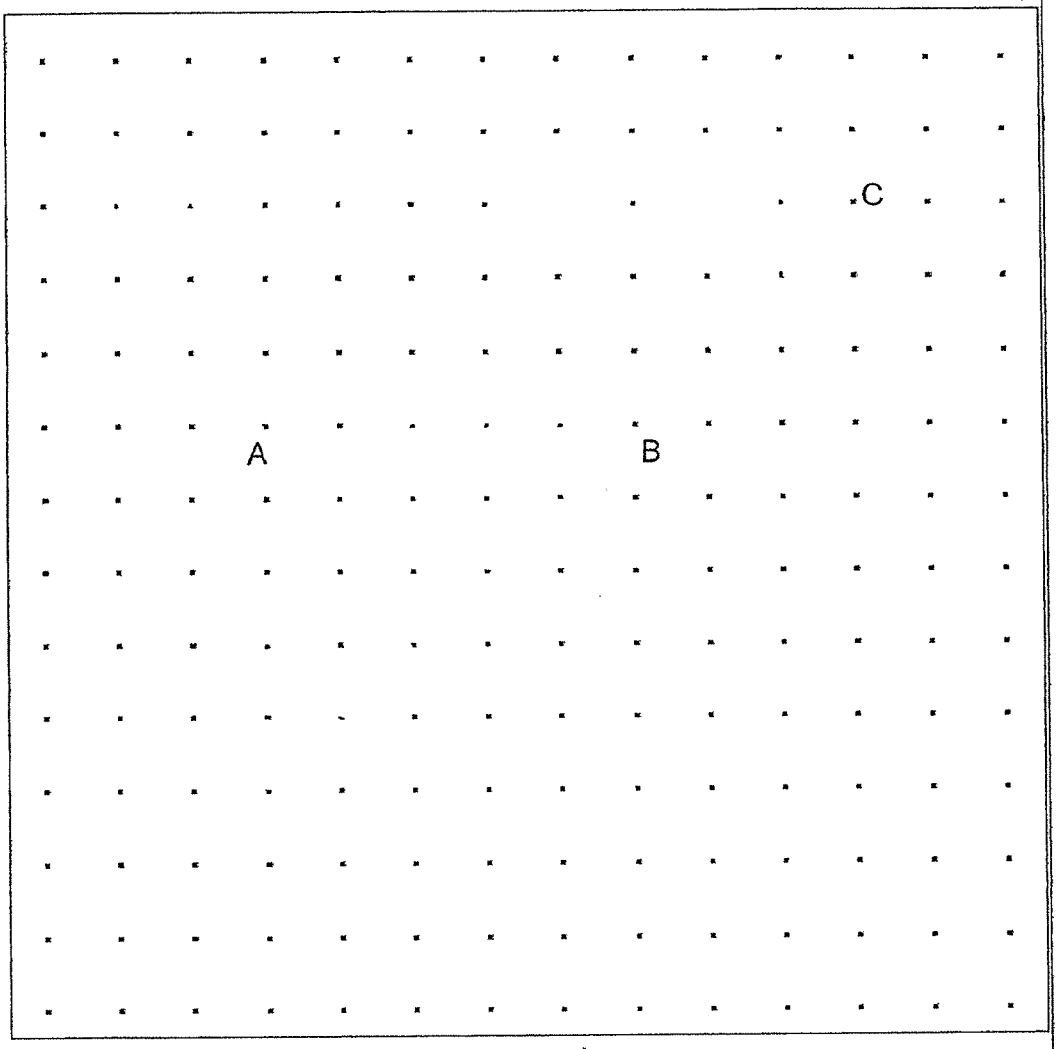
Ans: (a)_____ [2]

(b) ∠BCE is twice of ∠CBE. Find ∠BCE.

Ans: (b)_____ [2]

Please do not write in the margin.

15 In the square grid below, AB and BC are straight lines.



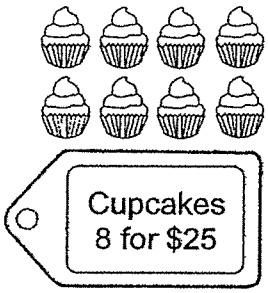
Please do not write in the margin.

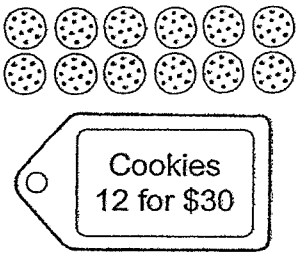
(a) AB and BC form two sides of a trapezium. Complete the drawing of Trapezium ABCD such that CD is twice the length of AB. [2]

(b) AB forms one side of a right-angled triangle. Complete the drawing of right-angled triangle ABE such that AB = AE and ∠BAE = 90°. Triangle ABE must not overlap with Trapezium ABCD. [2]

(Go on to the next page)

16 Mrs Lee bought some cupcakes and cookies. The cupcakes were sold at 8 for $25 and the cookies were sold at 12 for $30. Mrs Lee bought an equal number of cupcakes and cookies. She spent a total of $540 for all the cupcakes and cookies. How many cookies did Mrs Lee buy?





Ans: _____ [4]

Please do not write in the margin.

17 Mr Lai had some notebooks. He kept $\frac{3}{8}$ of the notebooks and gave $\frac{3}{4}$ of the remainder to his relatives. Then he sold the rest of them at 6 notebooks for $7 and collected $140 from the sale. How many notebooks did Mr Lai have at first?

Ans: _____ [5]

Please do not write in the margin.

End of Paper

(Go on to the next page)

Nan Hua Primary School
Primary 5 Mathematics 2024
End-of-Year Examinations Answer Key

Paper 1 Booklet A

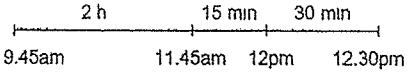
No.	Answer	No.	Answer	No.	Answer
1	(4)	6	(4)	11	(2)
2	(3)	7	(1)	12	(1)
3	(3)	8	(1)	13	(1)
4	(3)	9	(2)	14	(4)
5	(3)	10	(3)	15	(3)

Booklet B

No.	Solution
16	**4 and 7**
17	**0.375**
18	**15.4**
19	**512 cm³**
20	**91**

Paper 1 Booklet B

No.	Solution
21	(a) $\frac{8}{9}$ (b) $\frac{1}{6}$
22	(a) 360° – 75° – 127° = **158°** (b) **Farid**
23	(a) **5.8 ℓ**, **$5\frac{1}{4}$ ℓ**, **5 ℓ 90mℓ** (b) **420**
24	(a) **$3** (b) **6 km**
25	180° – 35° – 55°= **90°**
26	(a) **True** (b) **Not possible to tell**

No.	Solution
27	54 cm² ÷ 3 = 18 cm² length of rectangle = 2 × breadth of rectangle length of rectangle = 6 cm breadth of rectangle = 3 cm Length of ABCD = 3 cm + 6 cm = 9 cm Breadth of ABCD = 6 cm Perimeter of ABCD = (9 + 6) cm × 2 = **30 cm**
28	$\frac{2}{100}$ x $2400 = $48
29	 **09 45**
30	∠ADE = (90° – 50°) ÷ 2 = 20° ∠AED = 90° – 20° = 70° ∠AEB = 180 – 70° – 70° = **40°**

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Paper 2

No.	Solution
1	Ken → 24 John → 24 + 12 = 36 Louis → 36 x 2 = 72 John : Ken : Louis = 36 : 24 : 72 = **3 : 2 : 6**
2	N or North
3	\$394 + \$363 + \$401 = \$1158 \$1158 ÷ 2 = **\$579**
4	2 x 180° = 360° 360° – 94° – 142° = 124° 124° ÷ 2 = **62°**
5	$\frac{1}{2} \times 16 \times 12 = 96$ 96 – 72 = 24 24 × 2 = **48**
6	$(25\frac{1}{4} + 18\frac{1}{2}) \times 2 = 87\frac{1}{2}$ $87\frac{1}{2} \times \$32 =$ **\$2800** **OR** $25\frac{1}{4} + 18\frac{1}{2} + 25\frac{1}{4} + 18\frac{1}{2} = 87\frac{1}{2}$ $87\frac{1}{2}$ X \$32 = **\$2800**
7	15 x 5 = 75 208 – 75 = 133 12 – 5 = 7 133 ÷ 7 = **19**
8	Brother : Lionel : Ali 2 : 2 : 5 3u = 42 9u = 42 x 3 = **126** **OR** 3u = 42 1u = 42 ÷ 3 = 14 9u = 14 x 9 = **126**
9	$\frac{1}{3}$ of 21 cm = 7 cm 35 cm x 30 cm x 7 cm = 7350 cm^3 11 cm x 11 cm x 11 cm = 1331 cm^3 7350 cm^3 – 1331 cm^3 = 6019 cm^3 = **6 ℓ 19 m ℓ**

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<table>
<tr><th>No.</th><th>Solution</th></tr>
<tr><td>10</td><td>(a)
Mary: (129 – 35) ÷ 2 = 47

(b)
Assume all 47 coins are 20¢ coins
47 x $0.20 = $9.40
$15.10 – $9.40 = $5.70
$0.50 – $0.20 = $0.30
$5.70 ÷ $0.30 = 19

OR
<table>
<tr><th>No. of 50¢ coins</th><th>Value of 50¢ coins</th><th>No. of 20¢ coins</th><th>Value of 20¢ coins</th><th>Total Value</th><th>Check</th></tr>
<tr><td>23</td><td>23 x $0.50 = $11.50</td><td>24</td><td>24 x $0.20 = $4.80</td><td>$11.50 + $4.80 = $16.30</td><td>X</td></tr>
<tr><td>22</td><td>22 x $0.50 = $11</td><td>25</td><td>25 x $0.20 = $5</td><td>$11 + $5 = $16</td><td>X</td></tr>
<tr><td>19</td><td>19 x $0.50 = $9.50</td><td>28</td><td>28 x $0.20 = $5.60</td><td>$9.50 + $5.60 = $15.10</td><td>✓</td></tr>
</table>
$16.30 – $16 = $0.30
$16 – $15.10 = $0.90
$0.90 ÷ $0.30 = 3</td></tr>
</table>

<table>
<tr><th>No.</th><th>Solution</th></tr>
<tr><td>11</td><td>Amount of money Mrs Tay has
= 45 x $2.20
= $99

Price of 1 egg tart after 10% discount
= 90% x $2.20
= $1.98

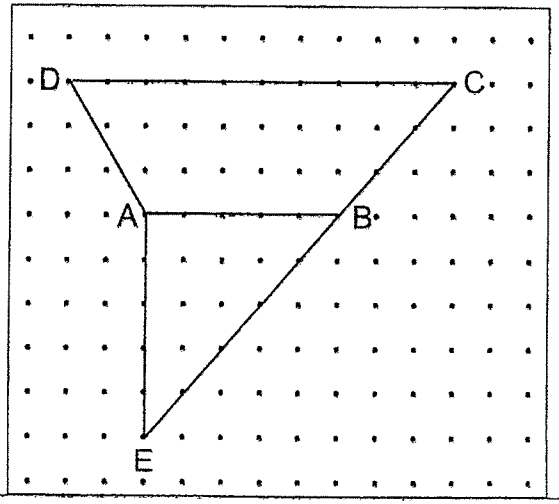
Number of discounted egg tarts
= $99 ÷ $1.98
= 50

50 – 45 = 5</td></tr>
<tr><td>12</td><td>$216 - $96 = $120
$120 ÷ $15 = 8 (weeks)
$216 ÷ 8 = $27 → David's savings per week
$27 + $25 = $52</td></tr>
<tr><td>13</td><td>(a) 20 x 7 = 140
150 – 40 = 110 (sold over 6 days)
140 – 110 = 30

OR

40 – 10 = 30 (Day 6 unsold – Total unsold)

(b) Day 3</td></tr>
</table>

No.	Solution
14	(a) $\angle ADE = 180° - 60° - 75°$ $= \mathbf{45°}$
	(b) **Method 1** $\angle CED = 180° - 75° - 75°$ $= 30°$ $\angle AED = 180° - 60° - 45°$ $= 75°$ $\angle CEB = 180° - 75° - 30°$ $= 75°$ $(180° - 75°) \div 3 = 35°$ $\angle BCE = 35° \times 2$ $= \mathbf{70°}$
	(b) Method 2 (Sum of angles between parallel lines) $180° - 75° = 105°$ $105° \div 3 = 35°$ $\angle BCE = 35° \times 2$ $= \mathbf{70°}$
15	

No.	Solution
16	Cupcakes 8 cupcakes → \$25 24 cupcakes → 3 x \$25 = \$75 Cookies 12 cookies → \$30 24 cookies → 2 x \$30 = \$60 \$75 + \$60 = \$135 \$540 ÷ \$135 = 4 (sets) 4 x 24 = **96**
17	\$140 ÷ \$7 = 20 6 x 20 = 120 notebooks sold 120 x 4 = 480 (remaining number of notes) 480 ÷ 5 = 96 96 x 8 = **768**
	$\frac{3}{4} \times \frac{5}{8} = \frac{15}{32}$ (relatives) $\frac{1}{4} \times \frac{5}{8} = \frac{5}{32}$ (sold) $\frac{3}{8} = \frac{12}{32}$ (kept) \$140 ÷ \$7 = 20 6 x 20 = 120 notebooks sold 5u = 120 1u = 120 ÷ 5 = 24 32u = 32 x 24 = **768**

END