NAN HUA PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2024

PRIMARY FOUR

MATHEMATICS

Total Time : 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name, register number and class 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 for Questions 1 to 20.
6. Use dark blue or black ball point pen to write your answers in the space provided for each question.
7. Do not use correction tape/ fluid/ highlighter.
8. The use of calculators is NOT allowed.

Marks Obtained

Section	Maximum Marks	Actual Marks
A	40	
B	40	
C	20	
Total	100	

Name : _____ ( )

Form Class : P4 ____ **Teaching Group: 4M** _____

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

This booklet consists of 20 printed pages.

Section A

Questions **1** 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 on the Optical Answer Sheet.

(40 marks)

---

1 10 thousands and 7 tens is the same as _____.

(1) 107

(2) 1070

(3) 10 007

(4) 10 070

2 Which of the following numbers when rounded to the nearest ten becomes 84 500?

(1) 84 442

(2) 84 498

(3) 84 507

(4) 84 553

3 Write $5\frac{7}{20}$ as a decimal.

(1) 5.72

(2) 5.7

(3) 5.35

(4) 5.035

4 Which of the following is **not** an equivalent fraction of $\frac{1}{4}$?

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

(2) $\frac{3}{12}$

(3) $\frac{5}{16}$

(4) $\frac{6}{24}$

5 How many one-quarters are there in 3 wholes?

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

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

(3) 12

(4) 4

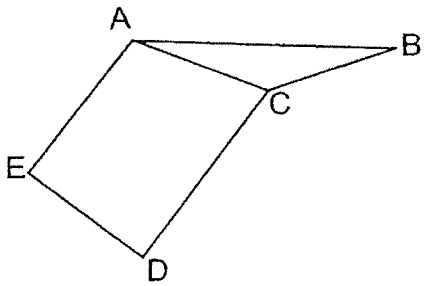
6 In the figure, which two lines below are perpendicular?

(1) AB and BC

(2) AC and CD

(3) AE and CD

(4) AE and ED



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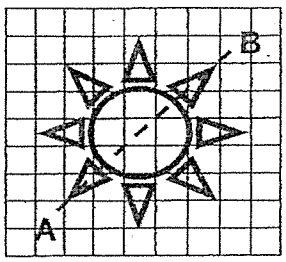
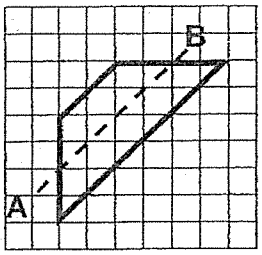
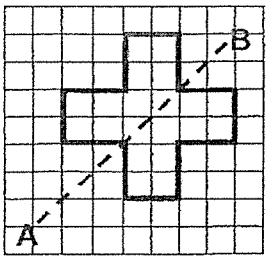
7 Which of the following figures does not show AB as the line of symmetry?



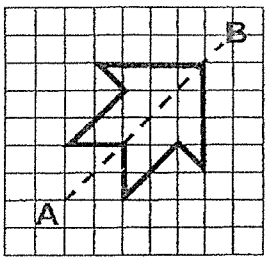
(1)



(2)



(3)



(4)

8 The area of a rectangle is 72 cm^2.

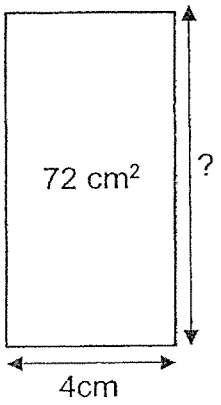
Given that the breadth is 4 cm, what is the length of the rectangle?

(1) 64 cm

(2) 32 cm

(3) 18 cm

(4) 14 cm



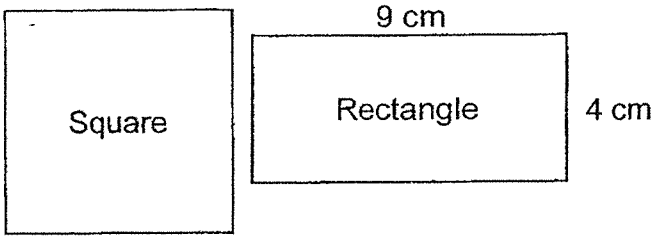
9 The square has the same area as the rectangle. Find the perimeter of the square.

(1) 13 cm

(2) 24 cm

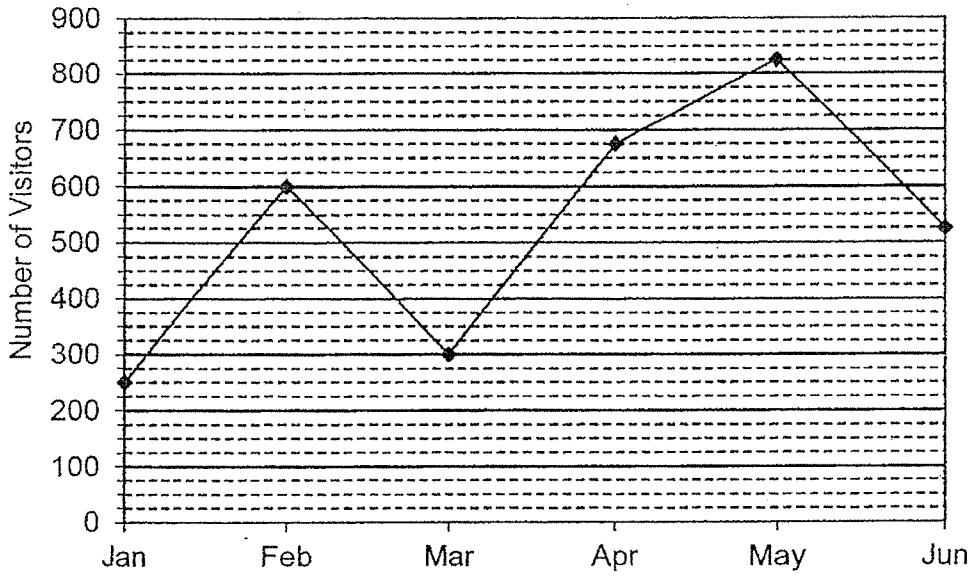
(3) 26 cm

(4) 36 cm



Use the information below to answer Questions 10 and 11.

The graph shows the number of visitors to Bird Paradise from January to June.



10 Which one-month period had the greatest difference in the number of visitors to Bird Paradise?

(1) January to February

(2) February to March

(3) March to April

(4) April to May

11 250 more visitors visited Bird Paradise in July than in June. How many visitors were there in July?

(1) 250

(2) 275

(3) 750

(4) 775

(Go on to the next page)

12 Complete the number pattern.

7103 , 7753 , 7703 , 8353 , 8303 , 8953 , 8903 , _____

(1) 8253

(2) 8853

(3) 8953

(4) 9553

13 Which of the following is a multiple of 4 and 7?

(1) 11

(2) 35

(3) 52

(4) 84

14 Alissa bought 5 m of ribbon to tie 4 similar presents. She used 0.87 m of the ribbon to tie each present. What was the length of the ribbon left?

(1) 1.25 m

(2) 1.52 m

(3) 3.48 m

(4) 4.13 m

15 A baker used $\frac{1}{5}$ kg of sugar to make cookies and $\frac{1}{4}$ kg of sugar to make brownies. After that, he had $\frac{1}{2}$ kg of sugar left. How many kilograms of sugar did he have at first?

(1) $\frac{9}{20}$ kg

(2) $\frac{7}{10}$ kg

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

(4) $\frac{19}{20}$ kg

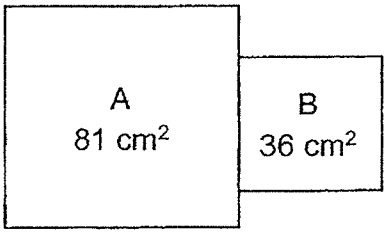
16 The figure is made up of 2 squares, A and B.
The area of Square A and Square B is 81 cm^2 and 36 cm^2 respectively.
What is the perimeter of the figure?

(1) 15 cm

(2) 45 cm

(3) 48 cm

(4) 60 cm



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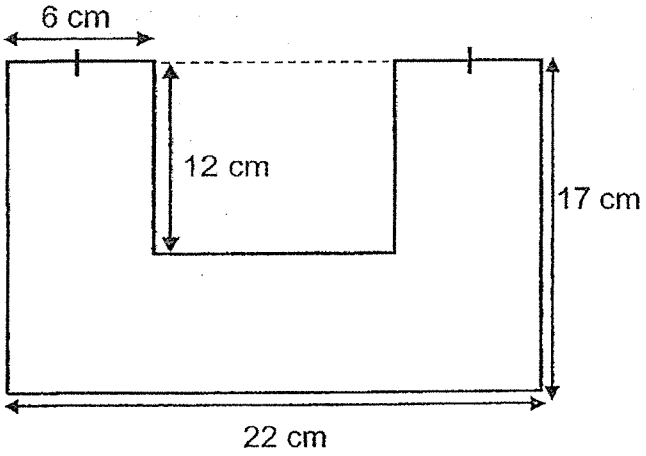
17 Find the area of the figure shown below. All the lines meet at right angles.

(1) 254 cm^2

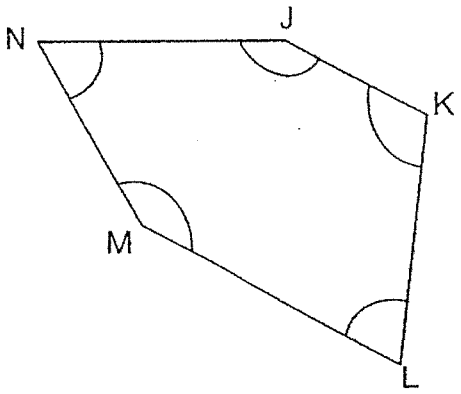
(2) 302 cm^2

(3) 324 cm^2

(4) 374 cm^2



18 Name the two angles that are smaller than 90°.



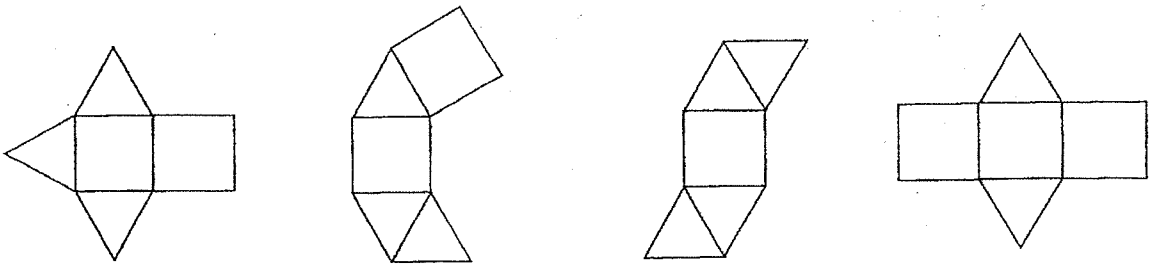
(1) ∠KLM and ∠JKL

(2) ∠KLM and ∠MNJ

(3) ∠JKL and ∠MNJ

(4) ∠JKL and ∠NJK

19 Which figure is a net of a pyramid?



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

20 There were some country erasers in a box that were shared by some students.
If each student took 2 erasers from the box, there would be 3 erasers left over.
If each student took 3 erasers, there would be 1 eraser short.
What is the total number of country erasers in the box?

(1) 5

(2) 6

(3) 9

(4) 11

(Go on to the next page)

Section B

Questions **21** to **40** 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.

(40 marks)

21 Write six thousand and thirteen in figures.

Ans : _____

22 What is the remainder when 1013 is divided by 7?

Ans : _____

23 Some factors of 32 are 1, 2, 4 and 32. What are the other two factors of 32?

Ans : _____

Please do not write in the margin

24 Express $\frac{6}{18}$ in its simplest form.

Ans : _____

25 Arrange the following fractions from the greatest to the smallest.

$$\frac{1}{2}, \quad \frac{5}{6}, \quad \frac{7}{12}$$

Ans : _____ (*greatest*), _____, _____ (*smallest*)

26 13.75 ÷ 0.28 = _____

Ans : _____

27 Round 13.56 to the nearest whole number.

Ans : _____

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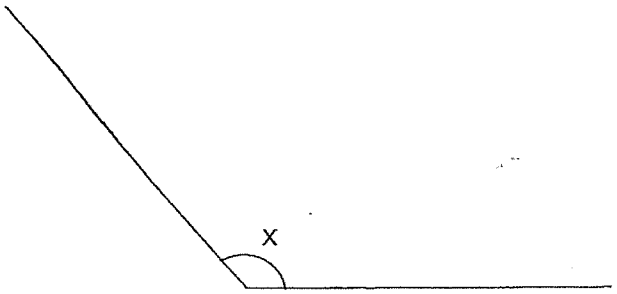
28 Find the value of 6.94×6.

Ans : _____

29 Measure and write down the size of $\angle x$.



Ans : _____ °

30 10 030 children visited the zoo in June. 3109 more children than adults visited the zoo. How many people visited the zoo altogether in June?

Ans : _____

31 The height of a plant is 6.25 cm now. It grows 0.7 cm every day.

What is the height of the plant after 4 days?

Ans : _____ cm

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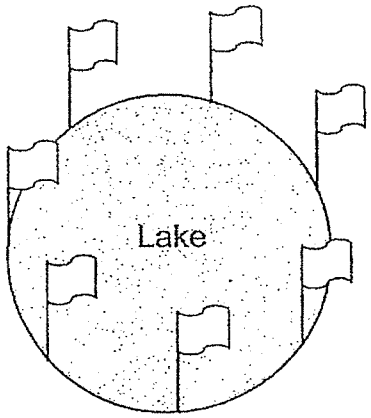
32 Mr Chan planted 7 flagpoles around the border of a circular lake. The distance between each flagpole and the next was equal for all the flagpoles.
The distance between the 1st flagpole and the 4th flagpole was 12.03 m.
What was the distance of the border around the lake?



Ans : _____ m

33 Cathy had $\frac{3}{4}$ ℓ of milk. She drank $\frac{1}{4}$ ℓ of the milk and spilled $\frac{1}{3}$ ℓ of it.

(a) How much milk did she drink and spill altogether?

(b) How much milk did she have left?

Ans : (a) _____ ℓ

(b) _____ ℓ

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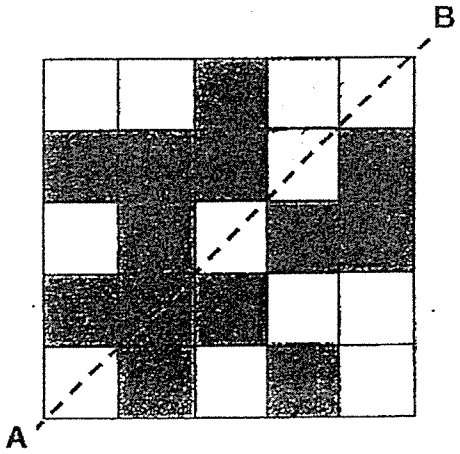
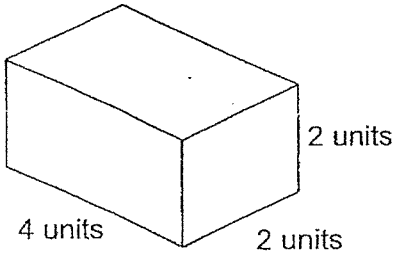
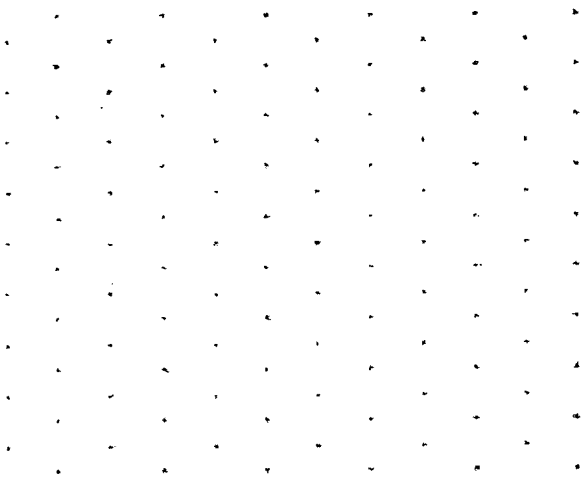
34 The figure below shows 13 shaded squares.

Shade 2 **more** squares to complete the symmetric pattern with AB as the line of symmetry.



35 Draw the following cuboid on the isometric grid.





36 Andy and Ben had a total of $698. Andy and Carl had a total of $510.
Ben had three times as much money as Carl. How much money did Andy have?

Ans : $ _____

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37 The table shows the types of CCA participated by some Primary 4 students.

	Chess	Dance	Choir	Badminton
Number of boys	6	7	8	B
Number of girls	7	A	15	17
Total	13	24	23	32

What numbers do the letters **A** and **B** represent?

Ans : A : _____

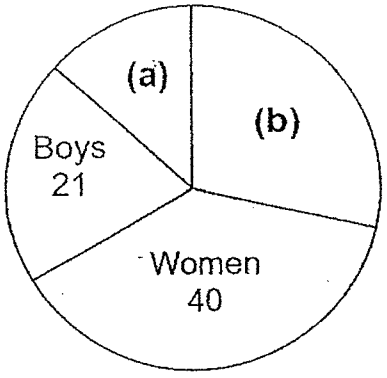
B : _____

38 The table and the pie chart show the number of people in a cinema.

People	Men	Women	Boys	Girls
Number	30	40	21	14

This pie chart shows the above information.

Fill in the missing people and numbers in the pie chart.



Ans : (a) People: _____ , Number: _____

Ans : (b) People: _____ , Number: _____

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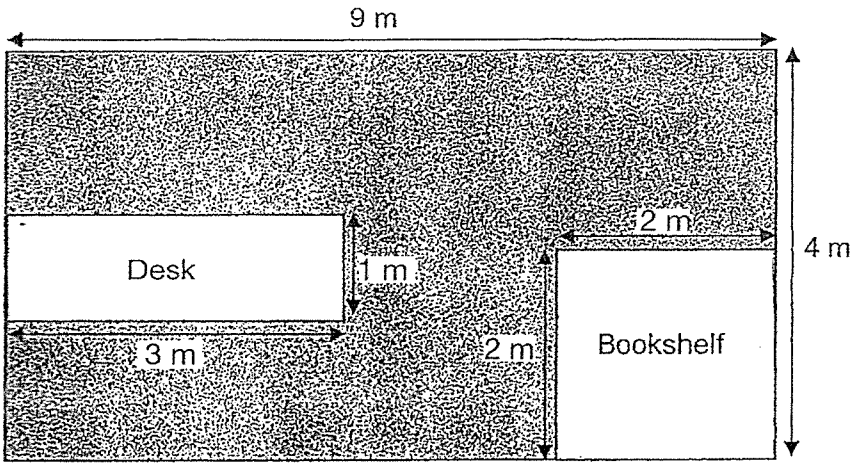
Use the information below to answer Questions **39** and **40**.

The diagram shows the floor plan of a 9 m by 4 m rectangular room. In the room, there is a rectangular desk and a square bookshelf. The shaded parts of the floor are not covered by furniture.



39 Find the area of the floor that is not covered by furniture.

Ans : _____ m^2

40 Find the perimeter of the floor that is not covered by furniture

Ans : _____ m

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Section C

For questions 41 to 46, show your working clearly and write your answers in the space provided. The number of marks available is shown in the brackets [ ] at the end of the question or part-question. (20 marks)

41 A rope of length 6.3 m was cut into three pieces. The first piece was thrice as long as the second piece. The second piece was twice as long as the third piece. How long was the second piece?

Ans: _____ [3]

42 Cindy baked some muffins. $\frac{5}{12}$ of the muffins are chocolate muffins and the rest are blueberry muffins. She baked 34 more blueberry muffins than chocolate muffins. How many muffins did she bake in all?

Ans: _____ [3]

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43 Peter bought 3 shirts and 2 bags for $289. Each bag cost $17 more than a shirt.
How much did a bag cost?

Ans: _____ [3]

44 Ken had 480 marbles. He had five times as many marbles as Jack.
After Ken gave Jack some marbles, they each had the same number of marbles.
How many marbles did Ken give to Jack?

Ans: _____ [3]

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45 The table below shows the favourite hobbies of some P4 students.

Hobby	Singing	Drawing	Cycling	Swimming	Skipping
Number of students	19	14	28	(b) ?	24
Fraction of students	$\frac{19}{120}$	$\frac{7}{60}$	$\frac{7}{30}$	$\frac{7}{24}$	(c) ?

(a) How many P4 students are there in total?

Ans: (a) _____ [1]

(b) How many P4 students like swimming?

Ans: (b) _____ [1]

(c) What fraction of the students like skipping?

Ans: (c) _____ [1]

(d) Which is the least popular hobby among the P4 students?

Ans: (d) _____ [1]

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46 Use the information below to answer the questions.

Set Meal A: $27	Set Meal B: $35	Set Meal C: $41
For 4 persons	For 5 persons	For 6 persons
• 8 nuggets • 4 pieces chicken • 4 drinks	• 10 nuggets • 5 pieces chicken • 5 drinks	• 12 nuggets • 6 pieces chicken • 6 drinks

(a) Mrs Chan wants to order food for 18 children at a party with no food wastage. Each child should get 2 pieces of nugget, 1 piece of chicken and 1 drink. What combination of set meals should Mrs Chan order if she wants to pay the **least** amount of money?

Ans: (a) Number of Set Meal A: _____ , B: _____ , C: _____ [3]

(b) How much money would Mrs Chan need to pay for the combination of set meals she has chosen?

Ans: (b) _____ [1]

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End of Paper

Nan Hua Primary School
End-of-Year Examinations

Primary 4 Mathematics 2024
Answer Key

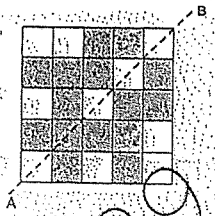
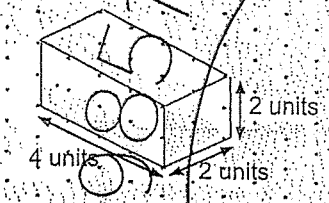
Section A

No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	(4)	6	(4)	11	(4)	16	(3)
2	(2)	7	(2)	12	(4)	17	(1)
3	(3)	8	(3)	13	(4)	18	(2)
4	(3)	9	(2)	14	(2)	19	(3)
5	(3)	10	(3)	15	(4)	20	(4)

0008/1(B)

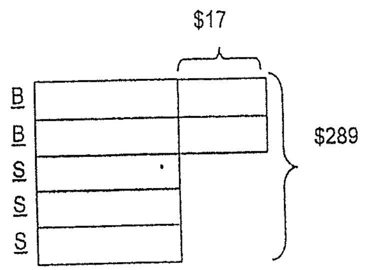
Section B

No.	Solution	No.	Solution
21	**6013**	27	**14**
22	1013÷7=144R5 **5 or R5**	28	**41.64**
23	**8 and 16**	29	**130°** Accept ± 1°, 129° or 131°
24	$\frac{1}{3}$	30	Method (1) 10 030 – 3109 = 6921 10 030 + 6921 **= 16 951** Method (2) 10 030 × 2 = 20 060 20 060 – 3109 **= 16 951**
25	$\frac{5}{6}$, $\frac{7}{12}$, $\frac{1}{2}$	31	0.7 cm × 4 = 2.8 cm 6.25 cm + 2.8 cm **= 9.05 cm**
26	**14.03**	32	Number of intervals between 1st and 4th flagpole = 4 – 1 = 3 Length of 1 interval = 12.03 m ÷ 3 = 4.01 m Number of intervals between 1st and 7th = 7 Distance between 1st and 7th flagpole = 7 x 4.01 m **= 28.07 m**

No.	Solution
33	(a) $\frac{1}{4} + \frac{1}{3} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12}$ (b) $\frac{3}{4} - \frac{7}{12} = \frac{2}{12}$
34	
35	
36	698 – 510 = 188 188 ÷ 2 = 94 510 – 94 = **416**

No.	Solution
37	A = 24 – 7 = **17** B = 32 – 17 = **15**
38	(a) People: **Girls** Number: **14** (b) People: **Men** Number: **30**
39	9 × 4 = 36 (3 × 1) + (2 × 2) = 7 36 – 7 = **29**
40	(9 + 4) × 2 = 26 26 + 3 + 3 = **32** or 9 + 2 + 2 + 2 + 7 + 4 + 3 + 3 = **32**

Section C

No.	Solution	Alternate Methods
41	9 u = 6.3 1 u = 6.3 ÷ 9 = 0.7 2 u = 2 × 0.7 = 1.4 Length of the second piece is **1.4 m**.	
42	7u – 5u = 2u 2u = 34 1u = 34 ÷ 2 = 17 12u = 12 × 17 = 204 She baked **204 muffins** in all.	
43	 2 x $17 = $34 $289 – $34 = $255 $255 ÷ 5 = $51 $51 + $17 **= $68** A bag costs $68.	3x$17 = $51 $289 + $51 = $340 $340 ÷ 5 = $68

44	5u = 480 1u = 480 ÷ 5 = 96 5u + 1u =6u Ken must give 2u to Jack so that they have the same number of marbles. 96 × 2 = **192** or 5u – 1u =4u 4u ÷ 2 = 2u 1u = 480 ÷ 5 =96 2u = 96 × 2 = **192** Ans: Ken gave Jack **192 marbles**.	480 ÷ 5 = 96 96 x 6 = 576 576 ÷ 2 = 288 288 - 96 = 192 or 480 ÷ 5 = 96 480 - 96 = 384 384 ÷ 2 = 192 or 480 ÷ 5 = 96 480 + 96 = 576 576 ÷ 2 = 288 460 - 288 = 192
45(a)	<u>Method 1</u> Read directly from the table. students who like singing → 19 total number of students → 120 There are a total of **120** students. <u>Method 2</u> 19 + 14 + 28 + 35 + 24 = **120**	
45(b)	Swimming → $\frac{7}{24} = \frac{35}{120}$ **35 students** like swimming.	
45(c)	$\frac{24}{120} = \frac{1}{5}$	
45(d)	Drawing	

46(a)	<u>Method 1</u> **18 × 2 = 36** Mrs Chan should order sets that add up to 36 pieces of nuggets. For 18 children and 36 pieces of nuggets, she can order the following combination of set meals: (i) 12 + 12 + 12 = 36 → 3C (ii) 8 + 8 + 10 + 10 = 36 → 2A and 2B **(iii) 8 + 8 + 8 + 12 = 36** → 3A and 1C Amount to pay for **3C** = 3 × \$41 = \$123 Amount to pay for **2A and 2B** = (2 × \$27) + (2 × \$35) = \$54 + \$70 = \$124 Amount to pay for **3A and 1C** = (3 × \$27) + \$41 = \$81 + \$41 = <u>\$122</u> (least) Mrs Chan would choose to **order 3 sets of Set Meal A and 1 set of Set Meal C** in order to pay the **least** amount of money. No. of Set Meal A: **3** No. of Set Meal B: **0** No. of Set Meal C: **1**	
46(b)	3A and 1C = (3 × \$27) + \$41 = \$81 + \$41 = **\$122** She would need to pay **\$122.**	

END