Thinker™ EDUCATION
MATH SPECIALISTS
PRIMARY & SECONDARY

2024
P4 WA1 MATH
NAN HUA PRIMARY SCHOOL

DETAILED SOLUTIONS

Detailed solutions are crafted following the methods taught at Thinker Education and are offered as a guiding reference. Any logically sound mathematical answers are accepted.

For Thinker parents, the respective levels' blank question papers and detailed solutions have been uploaded to Teams.

For others, please Whatsapp us at 9831 9770 to obtain the question papers for your child to practise.

14 Chun Tin Road, Hoover Park, Singapore 599601 9831 9770 www.thinkereducation.com

Nan Hua Primary School
Primary 4 Mathematics
Term 1 Weighted Assessment 2024

Marks	
Section A:	/8
Section B:	/8
Section C:	/9
Total:	**25**

Name: Detailed Solutions ( )

Class: Primary 4M___

Date: _____

Duration: 40 min

Parent's Signature

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.

This booklet consists of 9 printed pages and 1 blank page.

Section A

Questions **1** to **4** carry 1 mark each. Questions **5** to **6** 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 write your answer in the brackets.

(8 marks)

Topic : Numbers to 100 000

1 Which of the following is thirteen thousand, eight hundred and fifty in numerals?

(1) 13 085

(2) 13 805 13 850

(3) 13 850

(4) 30 850 (3)

Topic : Numbers to 100 000

2 Arrange the following numbers from the smallest to the greatest.

47 209,	46 327,	46 825

	Smallest			Greatest
(1)	47 209	, 46 825	,	46 327
(2)	47 209	, 46 327	,	46 825
(3)	46 825	, 47 209	,	46 327
(4)	46 327	, 46 825	,	47 209 ✓

(4)

Topic: Numbers to 100 000

3 In the following number pattern, what is the missing number?

12 878, 12 978, 13 978, 14 078, 15 078, 15178, 16 178, 16 278

+100 +1000 +100 +1000 +100 +1000 +100

(1) 16 078

(2) 15 178

(3) 15 079

(4) 14 978 (2)

Topic: Numbers to 100 000

4 Round 39 565 to the nearest thousand.

39 565 ≈ 40 000

(1) 39 000

(2) 39 500

(3) 39 600

(4) 40 000 (4)

Topic: Factors & Multiples

5 3 and 4 are factors of _____.

Factors of 15: 1, 3, 5, 15

24: 1, 2, 3, 4, 6, 8, 12, 24

32: 1, 2, 4, 8, 16, 32

38: 1, 2, 19, 38

(1) 15

(2) 24

(3) 32

(4) 38 (2)

Topic: Four Operations of Whole Numbers

9 (a) Find the value of 1028 ÷ 4

$1028 \div 4 = 257$

$$\begin{array}{r} 0257 \\ 4\overline{)1028} \\ \underline{8} \\ 22 \\ \underline{20} \\ 28 \\ \underline{28} \\ 0 \end{array}$$

Ans : (a) 257

(b) Find the product of 45 and 12

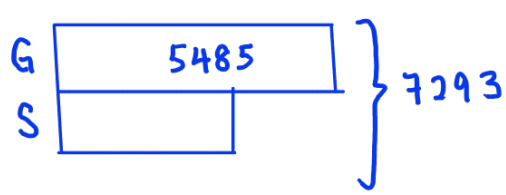
$45 \times 12 = 540$

$$\begin{array}{r} {}^{1} \\ 45 \\ \times\ 12 \\ \hline 90 \\ +_{1}\ 450 \\ \hline 540 \end{array}$$

Ans : (b) 540

Topic: Whole Numbers — Concept: Model Drawing

10 The sum of two numbers is 7293. The greater number is 5485. What is the smaller number?



$S = 7293 - 5485$

$= 1808$

Ans : 1808

Please do not write in the margin

Section C

For questions **11** to **13**, 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. (9 marks)

Topic: Whole Numbers Concept: model Drawing (comparison)

11 30 012 people visited an exhibition. 22 800 of them were adults and the rest were children.

(a) How many children visited the exhibition?

C = 30012 - 22800

= 7212

Ans : (a) 7212 children [1]

(b) 10 740 women visited the exhibition. How many children and women visited the exhibition?

C+W = 7212 + 10740

= 17952

Ans : (b) 17952 [2]

Please do not write in the margin.

Topic: Four Operations of numbers

12 Shop A had 126 boxes of oranges. There were 36 oranges in each box. The shop owner packed the oranges into bags of 8. How many bags of 8 oranges were there?

No. of oranges = 126 × 36

= 4536

No. of bags = 4536 ÷ 8

= 567

$$\begin{array}{r} 126 \\ \times\ 36 \\ \hline 756 \\ +3780 \\ \hline 4536 \end{array}$$

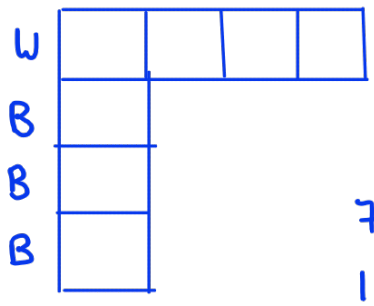
$$\begin{array}{r} 0567 \\ 8\overline{)4536} \\ 40 \\ \hline 53 \\ 48 \\ \hline 56 \\ 56 \\ \hline 0 \end{array}$$

Ans : 567 bags [3]

Topic: Whole Numbers

Concept: model Drawing (comparison)

13 A watch costs four times as much as a bag. Mr Tan paid $728 for a watch and three bags. How much did the watch cost?



7u = 728

1u = 728 ÷ 7

= 104

4u = 104 x 4

= 416

Ans : $416 [3]

End of Paper

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EDUCATION
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PRIMARY & SECONDARY

2024
P4 WA1 MATH
PEI HWA PRESBYTERIAN PRIMARY SCHOOL

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Pei Hwa Presbyterian Primary School
Mathematics
Weighted Assessment 1
Primary 4

30

Name: _____ ( ) Class: _____

Date : _____ Parent's Signature: _____

Section A: Multiple Choice Questions (10 marks)

Questions **1** to **6** carry 1 mark each. Questions **7** to **8** 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 write your choice (1, 2, 3 or 4) in the brackets provided.

Topic: Whole Numbers

1. Which of the following is the thirty-five thousand and eighty in numerals?

(1) 3580

35 080

(2) 35 008

(3) 35 080

(4) 35 800 (3)

Topic: Whole Numbers

2. Which digit in 98 754 is in the ten thousands place?

(1) 5

(2) 7

(3) 8

(4) 9 (4)

Topic: Whole Numbers

3. Round 6354 to the nearest ten.

(1) 6000

(2) 6350

(3) 6360

(4) 6400

6354 ≈ 6350

(2)

Topic: Whole Numbers

4. Arrange the following numbers in decreasing order. → biggest to smallest

64 817	84 716	64 781

(1) 64 817 , 64 781 , 84 716

(2) 64 781 , 64 817 , 84 716

(3) 84 716 , 64 817 , 64 781

(4) 84 716 , 64 781 , 64 817

(3)

Topic: Factors and Multiples

5. Which of the following is a common multiple of 4 and 6?

Factors

(1) 36 – 1, 2, 3, 4, 6, 9, 12, 18, 36

(2) 18 – 1, 2, 3, 6, 9, 18

(3) 16 – 1, 2, 4, 8, 16

(4) 10 – 1, 2, 5, 10

(1)

Topic: Four Operations of Whole Numbers

6. Find the product of 1482 and 3.

(1) 3246

(2) 4046

(3) 4246

(4) 4446

$$\begin{array}{r} {\scriptstyle 1\ 2} \\ 1482 \\ \times\quad 3 \\ \hline 4446 \end{array}$$

(4)

Topic: Tables and Line Graphs

7. The tables shows the number of blue beads and red beads in each of the 4 boxes.

Box	Number of Beads		
	Blue	Red	Total
A	13	11	24
B	9	17	26
C	15	17	32
D	12	15	27

Which box has more blue beads than red beads?

(1) A

(2) B

(3) C

(4) D (1)

Topic: Four Operations of Whole Numbers

8. 2042 children went to The Flyer to take a ride. Each cabin can carry at most 6 children. What is the least number of cabins needed?

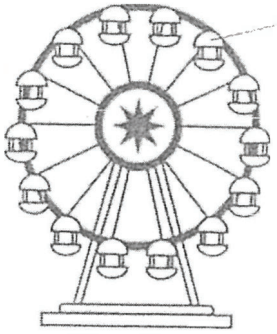
(1) 340

(2) 341

(3) 342

(4) 12 252 (2)

$$\begin{array}{r} 340\,R2 \\ 6\overline{)2042} \\ 18 \\ \hline 24 \\ 24 \\ \hline 02 \\ 0 \\ \hline 0 \end{array}$$



The Flyer

2042 ÷ 6 = 340 R2

340 + 1 = 341

Section B: Short-answer Questions (10 marks)

Questions **9** to **13** carry 2 marks each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

Do not write in this space

9. Write your answer in the boxes below.

(a) 7584 is between [7] thousands and [8] thousands.

(b) Round 7584 to the nearest thousand.

7584 ≈ [8000]

Topic: Number Pattern

10. The first three figures of a pattern are shown below.

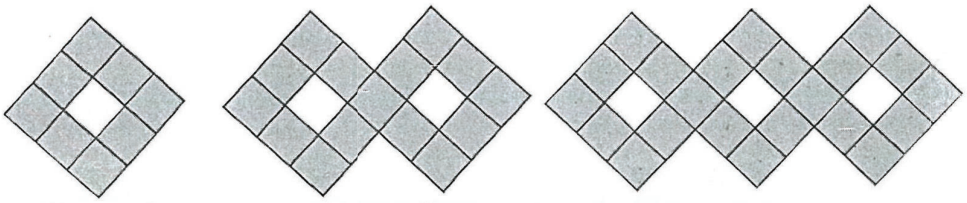


Figure 1 Figure 2 Figure 3

The table shows the number of white and grey squares used for each figure.

Figure	Number of white squares	Number of grey squares	Total number of squares
1	1	8	9
2	2	15 (+7)	17
3	3	22 (+7)	25

(a) Find the number of grey squares used to form Figure 5.

22 + 7 + 7 = 36

Ans: (a) 36 grey squares

(b) What is the total number of white and grey squares in Figure 5?

36 + 5 = 41

Ans: (b) 41 squares

Topic : Factors & Multiples

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11. (a) Find the largest multiple of 4 that is smaller than 30.

Ans: (a) 28

(b) Find the common factors of 16 and 24 that are greater than 1.

Factors of 16

1 × 16
2 × 8
4 × 4

Factors of 24

1 × 24
2 × 12
3 × 8
4 × 6

Ans: (b) 2, 4 and 8

Topic : Whole Numbers Concept : BCA

12. Mr Tan had some apples and 150 oranges. After he sold 18 apples and 18 oranges, he had a total of 225 apples and oranges left. How many apples did Mr Tan have at first?

	Apples	Oranges
B		150
C	- 18	- 18
A	93	132

No. of oranges left = 150 - 18
= 132

No. of apples left = 225 - 132
= 93

No. of apples at first = 93 + 18
= 111

Ans: 111 apples

Topic : Tables and Line Graphs

13. The table shows the three types of books Mrs Ong sold in January.
The number of Mystery books sold is not shown.

Do not write in this space

Books sold in January	
Genre	**Number sold**
Adventure	56
Mystery	? (75)
Science-fiction	68
Total	**199**

Mystery = 199 - 56 - 68
= 75

Each of the statements below is either true or false.
For each statement, put a tick (✓) to indicate your answer.

	Statement	True	False
(a)	The number of Science-fiction books sold is more than the number of Adventure books sold.	✓	
(b)	The number of Mystery books sold is fewer than the number of Adventure books sold.		✓
(c)	Science-fiction had the most number of books sold.		✓

Section C: Long-answer Questions (10 marks)

Solve each of the following problems. Show all your working and statements clearly. Write your answers and word statements in the spaces provided.

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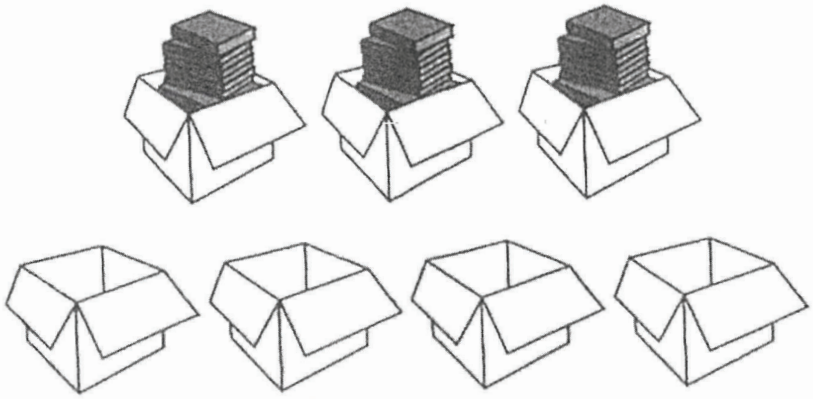
Topic: Four Operations of Whole Numbers

14. Jenny had 3 boxes with an equal number of books and 4 empty boxes as shown.



(a) Jenny removed 64 books from each of the 3 boxes. How many books did Jenny remove from the 3 boxes altogether?

64 x 3 = 192

Ans: (a) 192 books [1]

(b) Jenny then packed all the books she removed into the 4 empty boxes. After that, each of the 7 boxes had the same number of books. How many books were there in the 7 boxes altogether?

192 ÷ 4 = 48

48 x 7 = 336

Ans: (b) 336 books [2]

Topic: Bar Graphs

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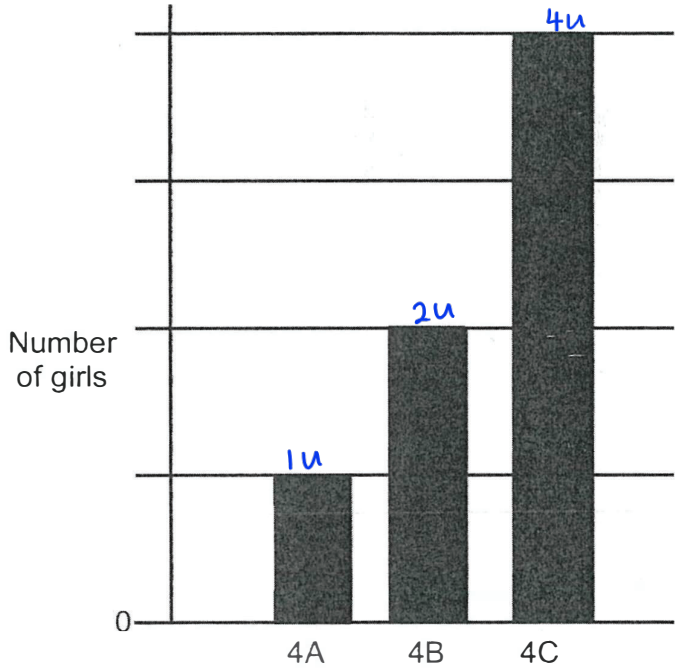
15. The bar graph shows the number of girls in some Primary 4 classes.
The number of girls is not shown on the scale.



(a) Which class had twice the number of girls as Class 4B?

Ans: (a) 4C [1]

(b) Complete the table below.

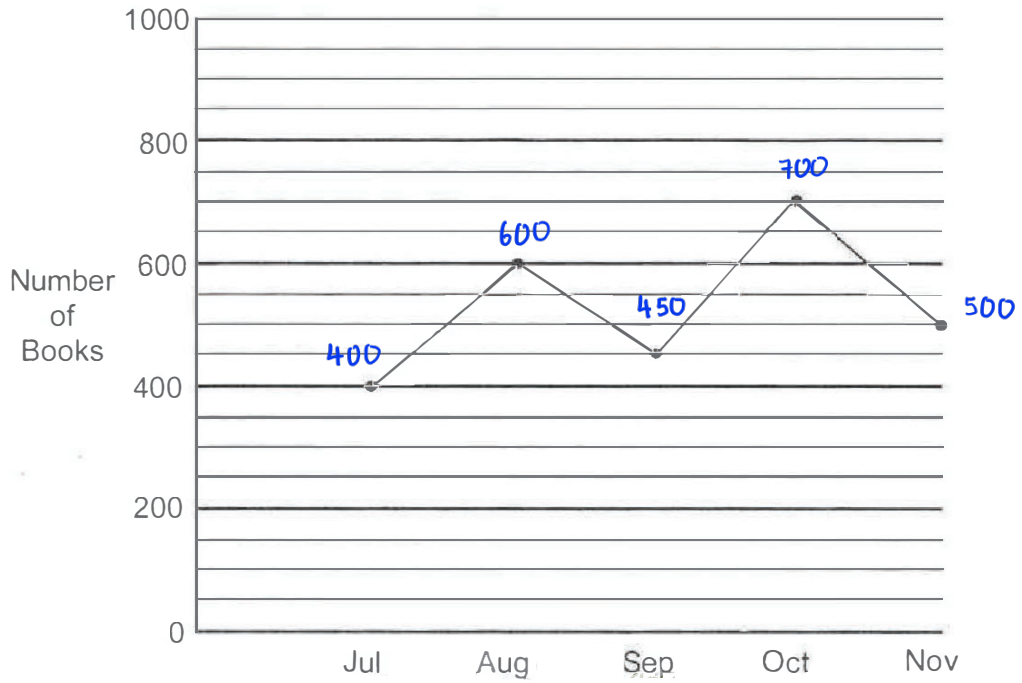
	4A	4B	4C
Number of girls	10÷2 = 5	10	10×2 = 20
Number of Boys	32	18	16
Total	5+32 = 37	28	20+16 = 36

[2]

Topic : Tables and Line Graphs

Do not write in this space

16. The line graph shows the number of books a bookshop sold over 5 months.



(a) How many books were sold in October?

Ans: (a) 700 books [1]

(b) Which months had more than 550 books sold?

Ans: (b) August and October [1]

(c) During which 1-month period was there an increase of 250 books sold?

(d) September to October [1]

(d) Which of the following would best describe the change in the number of books sold from July to November? Put a tick (✓) to your answer.

	July to August	August to September	September to October	October to November	Tick (✓)
(i)	increase ✓	decrease ✓	decrease ✗	increase ✗	
(ii)	increase ✓	decrease ✓	increase ✓	decrease ✓	✓
(iii)	decrease ✗	increase ✗	decrease ✗	decrease ✓	

[1]

End of Paper