NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2022

PRIMARY 3

MATHEMATICS
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour 45 minutes

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: _____ ( )

Class: Primary 3 ( )

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)

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1. What is the missing number in the equation below?

   $9836 = 9000 + \boxed{?} + 30 + 6$

   (1) 8

   (2) 80

   (3) 800

   (4) 8000

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

7231	7321	7213	7123

	Smallest			Greatest
(1)	7123 ,	7321 ,	7213 ,	7231
(2)	7231 ,	7213 ,	7321 ,	7123
(3)	7312 ,	7231 ,	7213 ,	7123
(4)	7123 ,	7213 ,	7231 ,	7321

3. Find the sum of 5641 and 1346.

   (1) 4295

   (2) 4305

   (3) 6987

   (4) 7087

4. What number is 2285 less than 8050?

(1) 5765

(2) 5865

(3) 6235

(4) 6875

5. 9×8 has the same value as _____.

(1) $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$

(2) $8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8$

(3) $9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9$

(4) $9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9$

6. What is the product of 285 and 6?

(1) 1210

(2) 1280

(3) 1680

(4) 1710

7. $835 \div 8 =$?
What is the missing number in the box?

(1) 14

(2) 14 R 3

(3) 104

(4) 104 R 3

8. Which of the following is an equivalent fraction of $\frac{6}{8}$?

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

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

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

(4) $\frac{8}{10}$

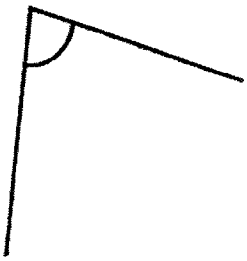
9. Arrange the fractions in order, starting from the greatest to the smallest.

$\frac{3}{5}$, $\frac{1}{4}$, $\frac{7}{10}$, $\frac{1}{2}$

	Greatest			Smallest
(1)	$\frac{3}{5}$,	$\frac{7}{10}$,	$\frac{1}{4}$,	$\frac{1}{2}$
(2)	$\frac{1}{4}$,	$\frac{1}{2}$,	$\frac{3}{5}$,	$\frac{7}{10}$
(3)	$\frac{7}{10}$,	$\frac{1}{2}$,	$\frac{3}{5}$,	$\frac{1}{4}$
(4)	$\frac{7}{10}$,	$\frac{3}{5}$,	$\frac{1}{2}$,	$\frac{1}{4}$

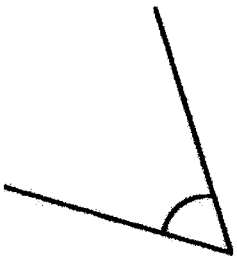
10. Which of the following figure shows an angle that is greater than a right angle?

(1)

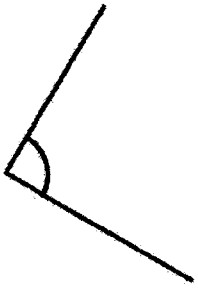


(2)

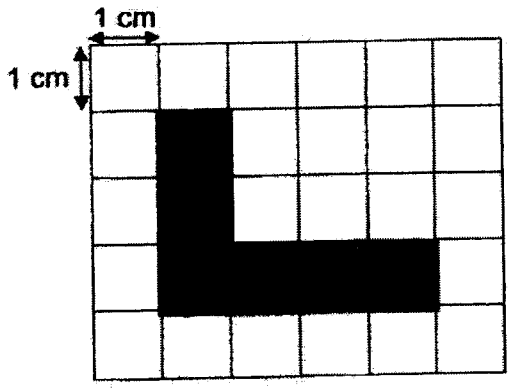
(3)



(4)



11. The figure below is drawn on a 1-cm square grid.



Find the perimeter of the figure.

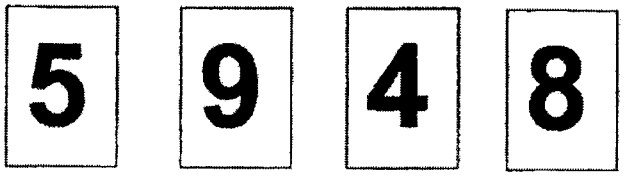
(1) 6 cm

(2) 7 cm

(3) 14 cm

(4) 19 cm

12. Lewis has 4 number cards.
Each number can only be used once.



What is the greatest 4-digit odd number that he can form?

(1) 8549

(2) 8954

(3) 9845

(4) 9854

13. Complete the number pattern below.

_____ , 6046 , 6446 , 6846 , 7246

(1) 5446

(2) 5646

(3) 6006

(4) 6086

14. When a number is divided by 3, it gives a quotient of 231 with a remainder of 2.
What is the number?

(1) 77

(2) 115

(3) 693

(4) 695

15. Ravi had 609 oranges.
He sold 357 oranges and packed the rest of the oranges equally into 7 boxes.
How many oranges were there in each box?

(1) 36

(2) 51

(3) 87

(4) 138

16. The distance between Shina's home and her office is 4379 m.
She drives from her home to her office each morning.
After work, she drives the same way home.
What is the total distance she drives each day?

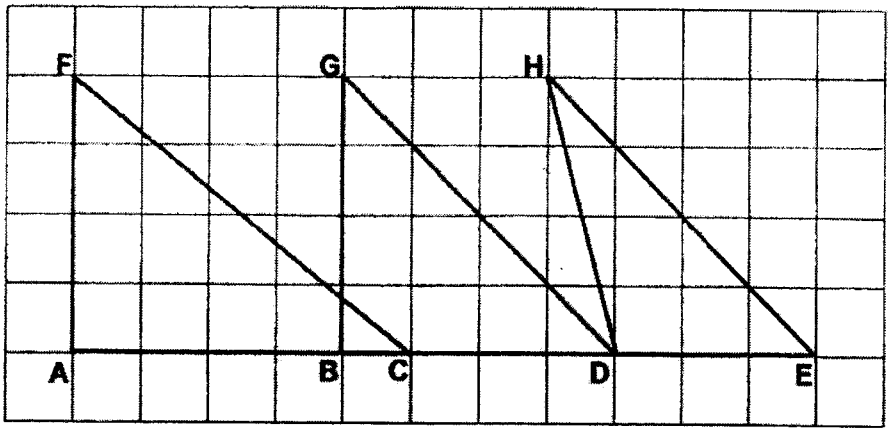
(1) 4 km 379 m

(2) 8 km 758 m

(3) 43 km 79 m

(4) 87 km 58 m

17. Look at the figure below.
AF, BG, DH, CF, DG, EH and AE are straight lines.



Name a pair of parallel lines.

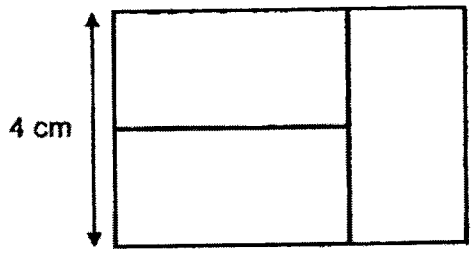
(1) AB // AF

(2) GB // HD

(3) FC // HE

(4) GD // HE

18. The figure below is made of 3 identical rectangles.



Find the perimeter of the figure.

(1) 16 cm

(2) 20 cm

(3) 24 cm

(4) 36 cm

19. James and Liz had a total of $648.
Liz had two times as much money as James.
How much money must Liz give to James so that each of them will have the same amount of money in the end?

(1) $108

(2) $162

(3) $216

(4) $324

20. Cheryl is thinking of a 3-digit even number.
When the number is divided by 3, there is no remainder.
The digit in the tens place is smaller than the digit in the hundreds place.
What is this number?

(1) 254

(2) 345

(3) 639

(4) 768

NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2022

PRIMARY 3

MATHEMATICS
(BOOKLET B)

Total Duration for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.

Name: _____ ( )

Class: Primary 3 ( )

Parent's Signature: _____

Booklet A	**/ 40**
Booklet B	**/ 60**
Total	**/ 100**

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

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. Mr Ang sold 2786 fishballs on Friday.
He sold 1375 fewer fishballs on Saturday than on Friday.
How many fishballs did he sell on both days?

Ans: _____

22. What is the missing numerator in the box?

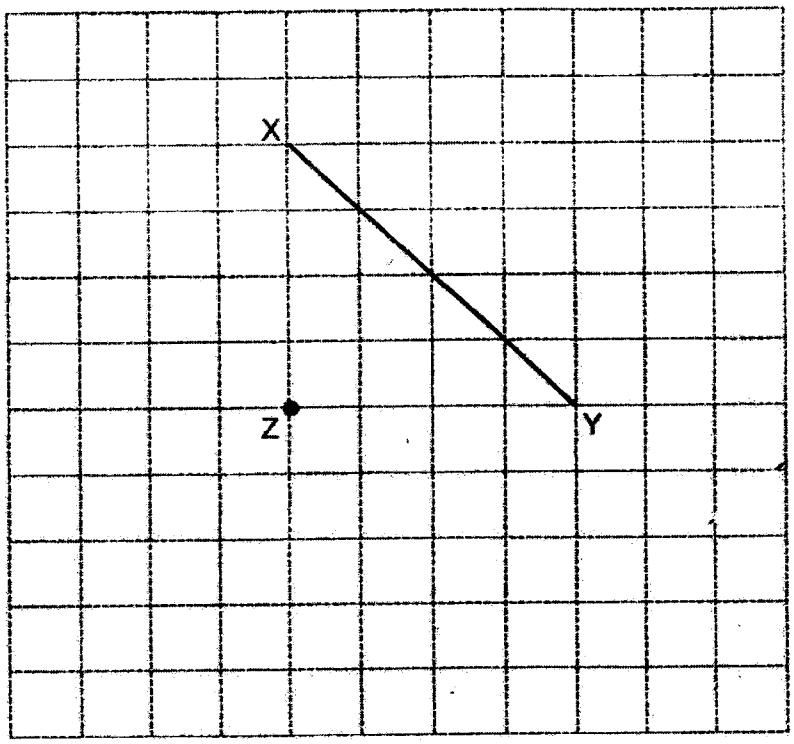
$$\frac{\boxed{?}}{3} = \frac{14}{21}$$

Ans: _____

23. Write 2 hour 45 minutes in minutes.

Ans: _____ min

24. A line XY is drawn in the square grid below.
Draw a line perpendicular to XY, passing through point Z.



25. Ximin had 5 boxes of pencils.
There were 8 pencils in each box.
She gave all her pencils equally to 10 friends.
How many pencils did each friend get?

Ans: _____

26. A factory produces 198 loaves of bread every day.
How many loaves of bread will the factory produce in a week?

Ans: _____

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27. Hafiz has 859 sweets.
He packs 4 sweets into each bag.
What is the smallest number of bags he will need to pack all the sweets?

Ans: _____

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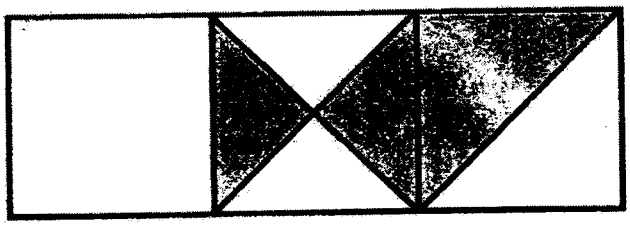
28. Devi baked 285 cookies.
She gave away thrice as many cookies on Monday as on Tuesday.
She then had 21 cookies left.
How many cookies did she give away on Tuesday?

Ans: _____

29. What fraction of the figure below is shaded?



Give your answer in its simplest form.

Ans: _____

30. A set of fractions is shown below.

$$\frac{2}{8}, \frac{5}{6}, \frac{3}{4}, \frac{1}{12}$$

Which 2 fractions will add up to 1 whole?

Ans: _____ , _____

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31. Sandi had $34.60 in her purse at first.
Her father gave her one $5 note and 4 twenty-cent coins.
How much money did she have in all?

Ans: $ _____

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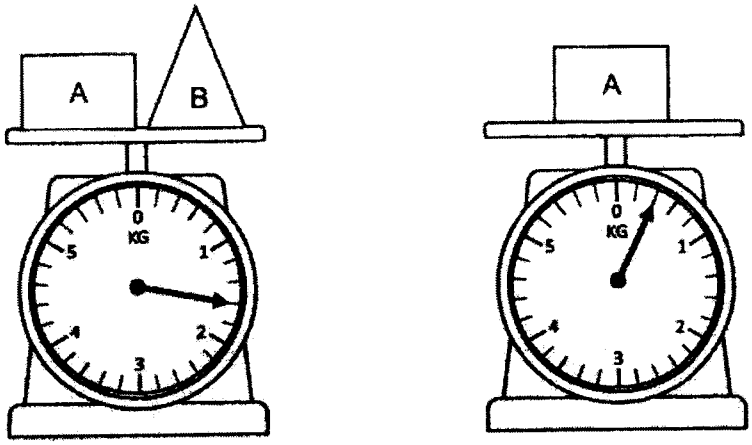
32. The weighing scales show the masses of Object A and Object B.



What is the mass of Object B?

Ans: _____ g

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33. Amelia and Jing Yi drank a total of 800 ml of apple juice.
Amelia drank 156 ml of apple juice less than Jing Yi.
How much apple juice did Jing Yi drink?

Ans: _____ ml

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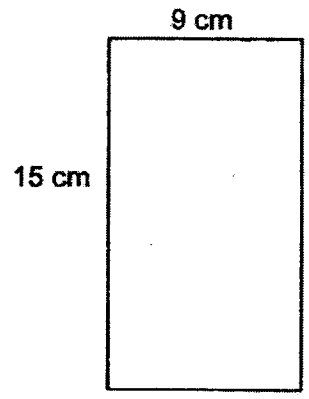
34. Mrs Lim spent 3 h 35 min to paint a picture.
She finished painting at 3.18 p.m.
What time did Mrs Lim start painting?
Give your answer in a.m. or p.m.

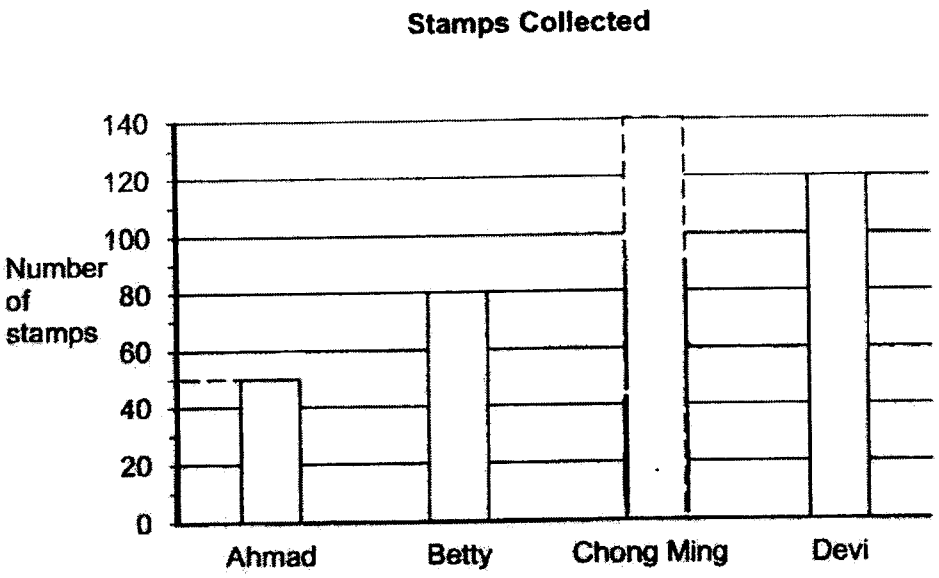
Ans: _____

35. A rectangular paper, as shown below, is cut into 3 equal smaller pieces.
What is the area of each smaller piece of paper?



Ans: _____ cm^2

36. The bar graph below shows the number of stamps Ahmad, Betty, Chong Ming and Devi each collected.
They collected 340 stamps altogether.
Complete the bar graph to show the number of stamps Chong Ming collected.



37. Joseph had 30 more stickers than Muthu at first.
Muthu gave 50 stickers to Joseph.
How many more stickers did Joseph have than Muthu in the end?

Ans: _____

38. Agnes had $82.50 more than Oliver.
Ming Huat had $96.50 less than Agnes.
How much more money did Oliver have than Ming Huat?

Ans: $_____

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39. Beth had some money at first.
Ann gave $18 to Beth.
Beth spent $36.
In the end, Beth had $80.
How much money did Beth have at first?

Ans: $ _____

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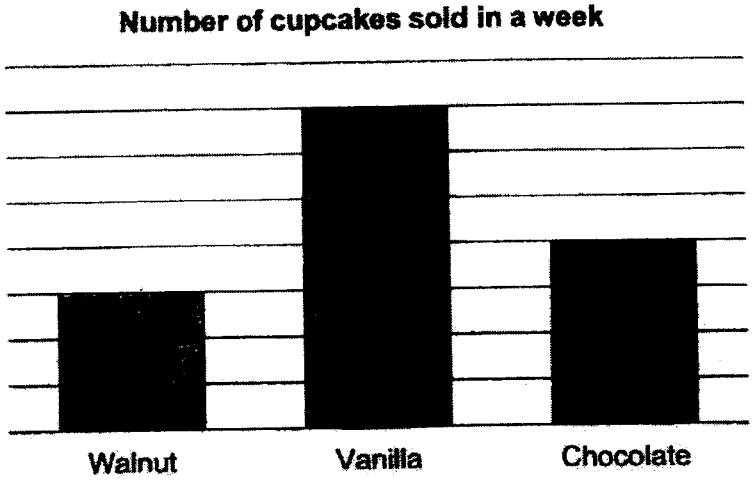
40. The graph below shows the number of cupcakes Mrs Menon sold for each flavour in a week.



Mrs Menon sold 20 more vanilla cupcakes more than walnut cupcakes. How many cupcakes did she sell altogether?

Ans: _____

For questions **41** to **45**, 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. (20 marks)

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41. A badminton racket and 4 similar soccer balls cost $185.
The cost of 2 such soccer balls is $38.

(a) Mdm Lim paid $200 for the badminton racket and 4 such soccer balls.
How much change would she receive?

(b) How much is the cost of 4 such soccer balls?

(c) Look at the statements below.
Put a tick (✓) in the box if the statement is correct.
Put a cross (×) in the box if the statement is wrong.

	Statement	Tick (✓) or Cross (×)
i.	Julia has $150. She needs $35 more to buy the badminton racket and 4 such soccer balls.	
ii.	The cost of 4 such soccer balls is less than the cost of the badminton racket.	

[1]

Ans: (a) _____ [1]

(b) _____ [2]

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42. The opening hours of a clinic is as shown below.

Opening Hours
Monday to Sunday 8.15 a.m. to 1.00 p.m. 3.00 p.m. to 5.30 p.m.

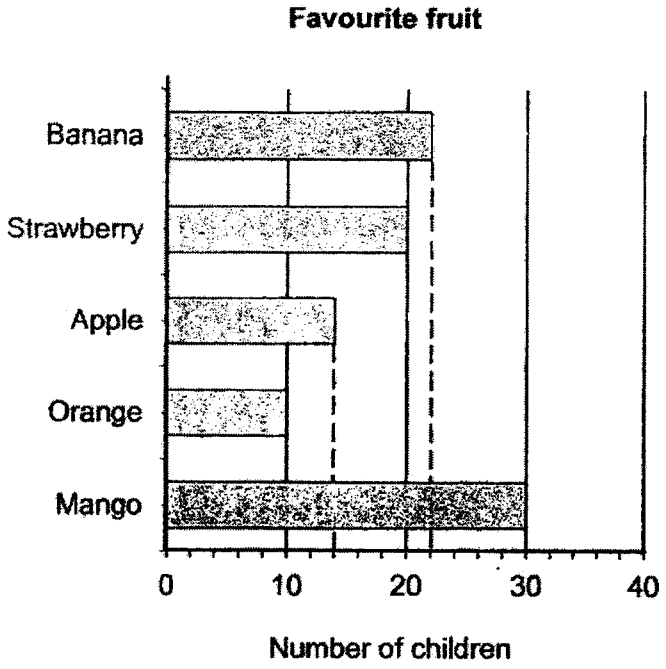
(a) How long is the clinic opened each day?
Give your answer in hours and minutes.

(b) George visited the clinic at 10.30 a.m.
He spent 48 minutes at the clinic.
What time did he leave the clinic?
Give your answer in a.m. or p.m.

Ans: (a) _____ [2]

(b) _____ [2]

43. The bar graph below shows the number of children who took part in a survey on their favourite fruits.



(a) What was the total number of children who took part in the survey?

(b) How many more children liked strawberry than apple?

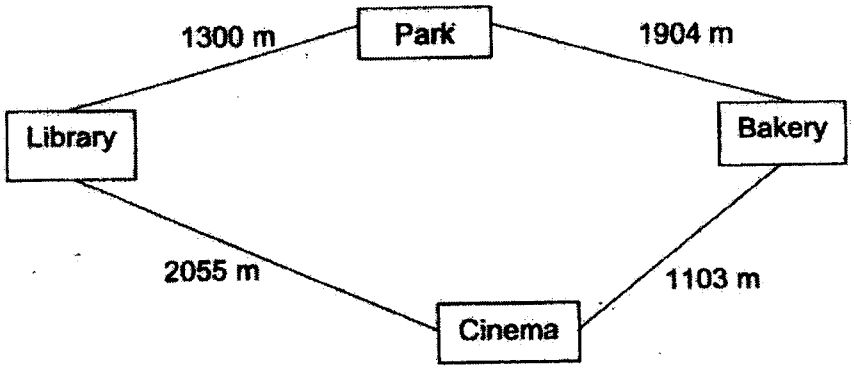
Ans: (a) _____ [2]

(b) _____ [2]

44. The distance between Bakery A and Bakery C is 2940 m.
The distance between Bakery A and Bakery C is four times the distance between Bakery B and Bakery C.

(a) What is the distance between Bakery B and Bakery C?

(b) Halimah wants to walk from the library to the bakery.
What is the shorter distance that she needs to walk from the library to the bakery?



Ans: (a) _____ [2]

(b) _____ [2]

45. There were 110 seats at a concert.
The seats were arranged in rows of 6 or rows of 8.
There were 15 rows altogether.

(a) How many seats were arranged in rows of 8 at the concert?

(b) A ticket to the concert cost $7.
All the seats were filled and there were no empty seats.
How much money was collected?

Ans: (a) _____ [2]

(b) _____ [2]

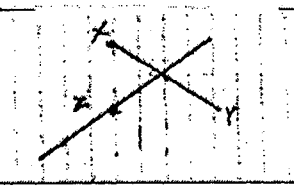
End of Paper

YEAR : 2022
LEVEL : PRIMARY 3
SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATION

BOOKLET A

Q1	3	Q2	4	Q3	3	Q4	1	Q5	2
Q6	4	Q7	4	Q8	1	Q9	4	Q10	2
Q11	3	Q12	3	Q13	2	Q14	4	Q15	1
Q16	2	Q17	4	Q18	2	Q19	1	Q20	4

BOOKLET B

Q21	2786 – 1375 = 1411 2786 + 1411 = 4197	Q22	2
Q23	1h = 60min 120 + 45 = 165min	Q24	
Q25	8 x 5 = 40 40 ÷ 10 = 4	Q26	198 x 7 = 1386
Q27	859 ÷ 4 = 214 R3 214 + 1 = 215	Q28	285 – 21 = 264 264 ÷ 4 = 66
Q29	$\frac{4}{12} = \frac{1}{3}$	Q30	$\frac{3}{4} = \frac{18}{24}$ $\frac{2}{8} = \frac{6}{24}$ $\frac{18}{24} + \frac{6}{24} = 1$ Ans: $\frac{3}{4}, \frac{2}{8}$
Q31	$34.60 + $5 = $39.60 $39.60 + 0.80 = $40.40	Q32	1600 – 400 = 1200g
Q33	800 – 156 = 644ml 644 ÷ 2 = 322 322 + 156 = 478ml	Q34	11.43 a.m.
Q35	15 x 9 = 135cm^2 135 ÷ 3 = 45cm^2	Q36	120 + 80 + 50 = 250 340 – 250 = 90
Q37	50 + 30 = 80 80 + 50 = 130	Q38	$96.50 - $82.50 = $14
Q39	$80 + $36 = $116 $116 - $18 = $98	Q40	20 ÷ 4 = 5 5 x 4 = 20 7 x 5 = 35 5 x 3 = 15 35 + 20 + 15 = 70

Q41	a) $38+$38=$78 $185 – $76 = $109 $109 + $76 = $185 $200 – $185 = $15 She would receive $15 back b) $38+$38 = $76 The cost OF 4 such soccer balls is $76 c) i ✓ ii. ✓	Q42	a) 4h 45min + 2h 30min = 7h 15min b) 10:30 + 48min = 11:18 a.m.
Q43	a) 22 + 20 + 14 + 10 + 30 = 96 b) 20 – 14 = 6	Q44	a) 2940 ÷ 4 = 735 b) 2005 + 1103 = 3158m 1300 + 1094 = 3204 m
Q45	a) Guess and Check method 10 rows : 10 x 8 = 80 5 rows : 5 x 6 = 30 80 + 30 = 110 Ans: 80 rows b) 110 x $7 = $770		

END