

MID-YEAR EXAMINATION 2022

PRIMARY 4

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 4 ()		

Questions 1 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. (30 marks)

- 1. In 71 563, what does the digit 5 stand for?
 - (1) 5
 - (2) 50
 - (3) 500
 - (4) 5000
- 2. Write 18 204 in words.
 - (1) Eighteen thousand and twenty-four
 - (2) Eighteen thousand, two hundred and four
 - (3) Eighteen thousand, two hundred and forty
 - (4) Eighteen thousand, two hundred and fourteen
- 3. Arrange the following numbers in order. Begin with the greatest number.

60 135 60 153 60 053 65 053

greatest smallest

- (1) 60 053 , 60 135 , 60 153 , 65 053 .
- (2) 60 053 , 60 153 , 60 135 , 65 053
- (3) 65 053 , 60 053 , 60 135 , 60 153
- (4) 65 053 , 60 153 , 60 135 , 60 053

4. Round 3652 to the nearest hundred.

- (1) 4000
- (2) 3700
- (3) 3650
- (4) 3600

5. Which one of the following is **not** a factor of 64?

- (1) 6
- (2) 2
- (3) 8
- (4) 4

6. What is the missing fraction in the box?

 $\frac{2}{3} = ?$

- (1) $\frac{8}{9}$
- (2) $\frac{9}{12}$
- (3) $\frac{10}{15}$
- (4) $\frac{16}{18}$

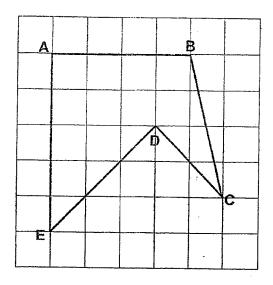
- 7. Which of the following fractions is less than $\frac{1}{2}$?
 - (1) $\frac{2}{4}$
 - (2) $\frac{4}{7}$
 - (3) $\frac{5}{9}$
 - $(4) \frac{5}{11}$
- 8. Which of the following improper fractions is equivalent to $5\frac{3}{8}$?
 - (1) $\frac{23}{8}$
 - (2) $\frac{29}{8}$
 - (3) $\frac{43}{8}$
 - $(4) \quad \frac{120}{8} \quad \dots \dots \dots$

9. What fraction of the toys are toy cars?

Toy Planes			
Toy Cars			
Toy Boats	0000	0000	Ocat Ocat Ocat Ocat Ocat Ocat Ocat Ocat

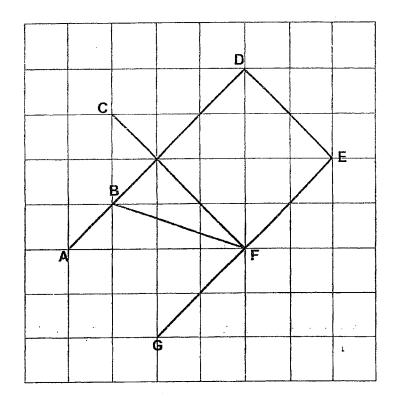
- $(1) \qquad \frac{1}{5}$
- (2) $\frac{1}{4}$
- (3) $\frac{3}{10}$
- (4) $\frac{10}{2}$

10. In figure ABCDE, which angle is equal to 45°?



- (1) ∠BAE
- (2) ∠ AED
- (3) ∠ ABC
- (4) ∠BCD
- 11. Ahmad earns \$5398 a month. He spends \$1806 each month and saves the remaining money. How much money does he save after half a year?
 - (1) \$27 552
 - (2) \$21 552
 - (3) \$4592
 - (4) \$3592

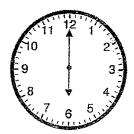
12. Look at the figure below. ABD, GFE, BF, CF and DE are straight lines.



Name the line that is parallel to line CF.

- (1) AD
- (2) · BF .
- (3) DE
- (4) GE

13. A soccer match started at 6 p.m. as shown in the clock below.



The soccer match ended at 7.15 p.m. that evening. How many right angles will the minute hand make by the end of the game?

- (1) 1
- (2) 2
- (3) 3
- (4) 5
- 14. Abigail and Elyse were playing with 7 number cards as shown below.



Abigail started by using 4 different number cards to form a 4-digit odd number. Elyse then used the remaining cards to form a 3-digit even number. Each number card was only used once.

What is the greatest difference between the two numbers that the girls formed?

- (1) 7232
- (2) 7285
- (3) 7529
- (4) 7531

- 15. Jean, Kate, Lindy and Mark each wore a different coloured T-shirt: red, orange, blue and black. Lindy did not wear red or orange. Jean liked Mark's blue T-shirt. Kate did not have a red T-shirt. What was the colour of the T-shirt that Jean wear?
 - (1) Red
 - (2) Blue
 - (3) Black
 - (4) Orange



MID-YEAR EXAMINATION 2022

PRIMARY 4

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 bookiet.

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Class: Primary 4 ()			
Parent's Signature:				•

Booklet A	/ 30
Booklet B	/ 70
Total	/ 100

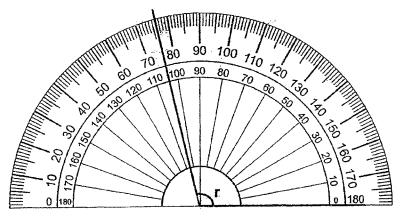
Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

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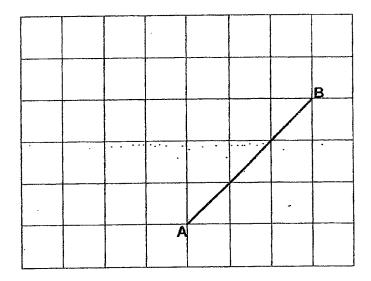
		units stated.			(40 marks
16.	List all the co	mmon factors	of 54 and 81.		; ;
					: !
					:
	L			Ans:	
17.	Which of the	2 numbers are	e not multiples	of 9?	
		-			
	27	54	38	81	75
				"	
			•		
			Ans:	and	

18. (a) Find $\angle r$.



Ans: _____

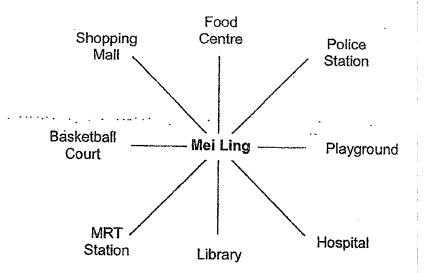
(b) Draw a line WX that is perpendicular to line AB.



19. Using a protractor and a ruler, draw ∠ABC = 67°. Mark and label the angle. The line AB has been drawn for you.

A B

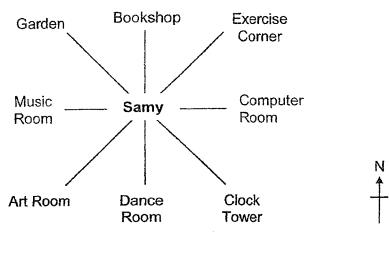
20. Mei Ling is facing the Police Station at first. She makes a $\frac{3}{4}$ turn anti-clockwise. Where is Mei Ling facing in the end?



N

Ans:

21 Samy is facing north at first and he turns to face the Clock Tower. What angle has Samy turned through in the clockwise direction?



Ans:	0	į
/ 10.		

- 22. Complete the number patterns.
 - (a) 32 475, 32 485, 32 495, _____, 32 515, 32 525
 - (b) _____, 91 205, 93 205, 95 205, 97 205

Ans: (a) ______

23. Jane can pack all the cookies into boxes of 6 cookies or boxes of 8 cookies, without having any remaining cookies. What is the smallest possible number of cookies Jane can have?

Ans: _____

24.	A refrigerator cost \$1695 more than a television set. Mr Lim would have \$367 left when he chose to buy the television set. How much more money would Mr Lim need when he chose to buy the refrigerator instead?
	U
	Ans: \$
25.	A machine can produce 1960 boxes in 8 hours. How many boxes can 12 such machines produce in 1 hour?
	i e e e e e e e e e e e e e e e e e e e
. .	Ans:
26.	There are 2970 children in a school. There are 5 times as many boys as girls. How many girls are there in the school?
	Ans:

27.	Eason had 56 cards at first. He gave away $\frac{3}{7}$ of his cards. How many cards did he have left?
	Ans:
28.	Packet A contains $\frac{3}{5}$ kg of beans. Packet B contains $\frac{1}{8}$ kg more beans than Packet A. What is the total mass of beans in Packet A and Packet B? Express your answer as a mixed number in its simplest form.
29.	Maya cut a whole cake into 12 equal slices. Her friends ate $\frac{1}{2}$ of the cake and her cousins ate 5 slices of the cake. What fraction of the cake was eaten?
	Ans:

30.	There was $\frac{3}{8}$ ℓ of water in a pail at first. Xiao Tong poured $\frac{1}{4}$ ℓ of wainto the pail. How much water is there in the pail now?	ater
	Ans:	{
31.	Elsa took $\frac{7}{10}$ h to drive from her house to the zoo. She took $\frac{1}{5}$ h less to drive back home from the zoo. What was the total amount of times she took to drive from her house to the zoo and drive back home? Express your answer as an improper fraction in its simplest form.	
•	- Ans:	h
32.	A bag of potatoes has a mass of $\frac{1}{2}$ kg. The bag of potatoes is $\frac{1}{4}$ kg lighter than a bag of apples. What is the total mass of 2 such bags of apples?	

Ans:

kg

33.	A book cost \$28 more than a pencil case.	Marilyn paid a total of \$527
	for 5 such books and 4 such pencil cases.	
	pencil case cost?	

Ans: \$_____

Ans: _____

35. There was a total of 160 green beads and red beads. After $\frac{2}{3}$ of the green beads and 12 red beads were removed, there was an equal number of green beads and red beads left. How many red beads were there left?

A	i
Ans:	İ

the s	questions 36 to 43, show your working clearly and write your paces provided. The number of marks available is shown in le end of each question or part-question.	answers in brackets [] (30 marks)
36.	Thavanesh had 450 chocolates. He gave 172 chocolates to He packed all the remaining chocolates into bags of 8 at leftovers for himself. How many chocolates did Thavaneshimself?	nd kept the
	Ans:	,
37.	Mrs Quah bought more than 20 but fewer than 50 per students. When she gives each student 8 pencils, she will repencils. When she gives each student 9 pencils, she will repencils. How many pencils did Mrs Quah buy?	ncils for her be short of 2
٠		
	Ans:	[3]

- Rebecca had a piece of ribbon. She used $\frac{1}{3}$ of the ribbon to tie a present and $\frac{1}{5}$ of the ribbon decorate a dress.
 - (a) What fraction of the piece of ribbon was used to tie the present and to decorate the dress?
 - (b) She used 240 cm of ribbon in total. How long was the piece of ribbon at first?

Ans:	(a)	[2]
	(b)	[2]

- 39. A red pole is 5 m long. It is $\frac{3}{10}$ m longer than a blue pole.
 - (a) What is the length of the blue pole?
 - (b) What is the total length of the red pole and blue pole?

Ans: (a) _____[2]

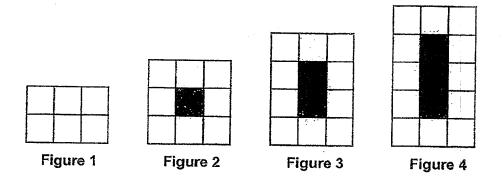
(b) _____[2

Mel's home, the bank, the supermarket, the shopping centre and the playground are located as shown in the square grid below. Playground â Bank (a) In which direction is the playground from Mel's home? (b) In which direction is the bank from the supermarket? (c) Which place is north_of the bank? (d) A library will be built in the neighbourhood. The following sentences describe the location of the library. i. Mel's home is north-west of the library. ii. The library is south of the shopping centre. Mark 'X' on the grid above to show the location of the library. [1] Ans: (a) _____[1] (c)

40.

41.	Amiya and Ben had the same number of stickers at first. Ben used 3600 stickers. In the end, Amiya had 4 times as many stickers as Ben.
	(a) How many stickers did Amiya have at first?
	(b) How many stickers must Amiya give to Ben so that both of them would have the same number of stickers again?
	e de la companya de l La companya de la co
	Ans: (a)[2]
	(b)[2]

42. Amanda uses grey tiles and white tiles to form figures that follow a pattern. The first four figures are shown below.



- (a) What is the total number of grey tiles and white tiles Amanda would use for Figure 8?
- (b) How many white tiles would she use for Figure 36?

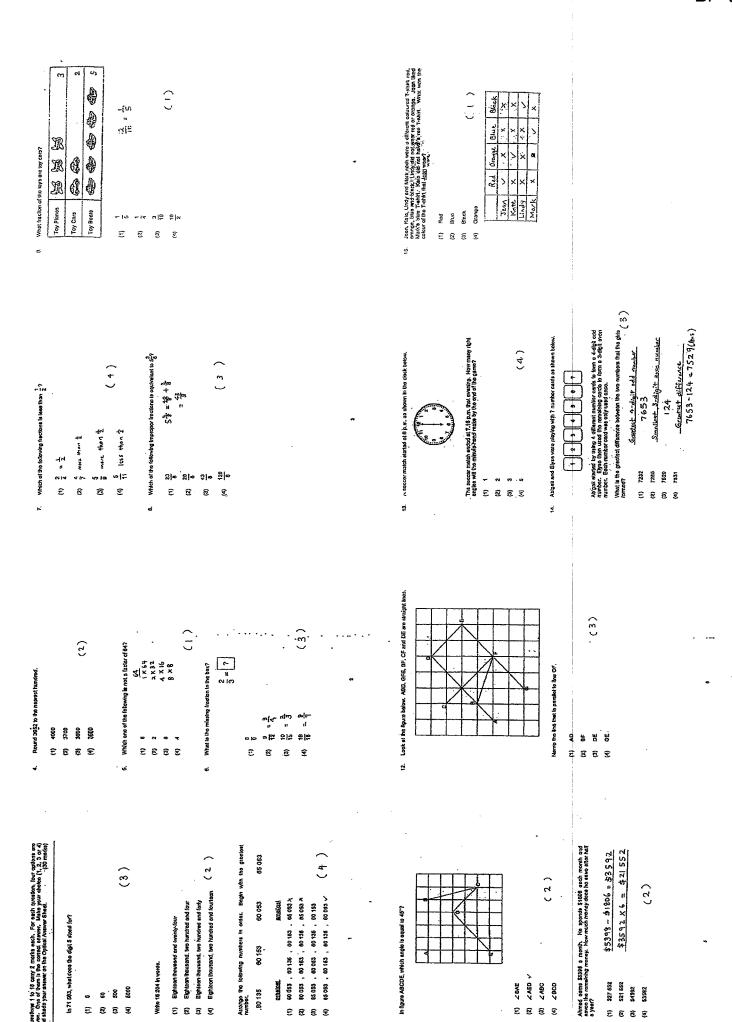
Ans:	(a)	[2]
	(b)	[2]

- Wendy spent $\frac{2}{3}$ of her money on a bag, $\frac{1}{9}$ of her money on a pair of shoes and saved the rest. The amount of money she saved was \$100 less than the total amount of money she spent.
 - (a) What fraction of her money did Wendy spend?
 - (b) Wendy gave half of her savings to her sister. How much money did Wendy give to her sister?

Ans: (a)	[2]
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[2]

End of Paper



24. A radifigurator cash \$1035 mayor than a traderial state. At the model have a \$105 lish which has above to be but in showed the buy in reduction made in the model in the m	Oversions 16 to 35 carry 2 number each, Straw your weaking deathly and while your strawers in the strawer provide. For questions while Applied while you was more than the strawer. 18. List of the common inclose of \$8 and \$11. For the conference of \$9.4>(0), 2, (3), 6, (1), 18, (27), 54. For the conference of \$1>(0), 2, (3), 6, (1), 18, (27), 54. The conference of \$1>(0), 2, (3), 6,
27. Eason had so cards within the gave away $\frac{1}{7}$ of the swide. Now many could slid be have being the house being the house being the house of a particular of the swide away that the case of the swide A and particular hands being the fraction of Espenses your enterior as a mised number in the demised A and particular hands being the swide away as a mised number in the demised A and particular hands by $\frac{1}{2}$ key're key and the case of the swide. Note fraction of the color and he case that its clauma above. Note fraction of the color and a star is situated to the case of the swide. What fraction of the color and a star is situated to the case of the case.	(b) Oran u lino WX (half b perpendicular to fine A6.
Those was $\frac{1}{6}$ to where in a paid at trut. Niso Trang poursed $\frac{1}{6}$ to water into into the label from the much hand to the paid never $\frac{1}{6}$ to water produced by the paid never $\frac{1}{6}$ to water from the same in the same	20. Mai Ling to beding the Police Sizion at Rel. She motes a 2 am authoristic Where is the ling fieldigh in the one? Singping Long Mail Ling Feed Sizion at Rel. She motes a 2 am authoristic Where is Kesi Ling fieldigh in the one? Singping Long Feed Sizion at Rel. She motes a 2 am authoristic Where is Kesi Ling fieldigh in the one? Singping Long Feed Sizion Ling Feed Sizion Ling Mail Ling Feed Sizion Ling Mail Ling Feed Sizion Ling Mail Ling Feed Sizion Linguistic Court Lingu
33. A book crait 38 mass than a perall cases, Marking naide a total of \$827 (a) perall cases. Hav much money did each perall cases. Have much money and cases. Have much much money and cases. Have much much money and the machine and cases. Have much much money and the machine and the much much much much machine and the much much much much much much much much	21. Serry is decide noish at first and he torick to fisce the Clock Tower, what angle has Suny lumps through in the cischwise disocition? Gundan Boulean Boulean Campular Fason Fa

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Ans: (0) 2.7 (0) 76

Ans: 10) 4800

33. A rod pair is 5 m form, it is $\frac{1}{12}$ m formar thair is thin sodo. (c) what is the tength of the rod pole and the rado? (c) what is the tength of the rod pole and the rado? (d) $B(u_L \rightarrow Sm - \frac{13}{16}m)$ $\frac{1}{2} + \frac{16}{16}m - \frac{13}{16}m$ $\frac{1}{2} + \frac{16}{16}m - \frac{13}{16}m$ $\frac{1}{2} + \frac{16}{16}m - \frac{13}{16}m$ (b) $Tofral \rightarrow Sm + 4 + \frac{13}{16}m - \frac{1}{2}f^{12}m f^{12}m$ Anse: (a) $\frac{4f^{21}_{12}m}{4f^{21}_{12}m} \frac{(2)}{4f^{21}_{12}m} \frac{(2)}{(2)}$	13. Workey sport 3 of the money on a both, 5 of ther money on a pair of allows and served the neat. The amount of money the saved was \$100 least then the follor amount of money due sport. (3) Whenly gave half of the savings to her dister. Now much namely distributed by the hord relative. Now much namely (2) the savings to her dister. Now much namely (2) the savings are savings to her dister. Now much namely (3) 中央 4 中央 2	Aus. (a) 3 (b) 330 (8)
The Rebersca had a place of fiboral Sire listed $\frac{1}{3}$ of the abbondoorate a densa. (a) What leading of the place of theorn was used to the line present and $\frac{1}{3}$ of the abbondoorate a densa. (b) Sire used 240 cm of Abbon in tatel. How lines was the picca of the abbondoorate and $\frac{1}{3}$ of	Accesses uses gray these not wellen these to form figures that fallow a pattern. The first four figures are shown below. Figure 1 Figure 2 Figure 3 Figure 4 (b) What is the total rembers of pray (fee and white these Amonda week are for figure 9). (c) Four many white these would she use for Figure 367 (d) 3 X 4 = 27 C fb-x) (e) 3 X 3 = 111 (f) 3 X 3 = 111	Ans: (a) 27 [2]
The spaces provided. The number of morito eventing the strone to the spaces provided. The number of morito eventing the strone in the spaces provided. The number of morito eventing the strone in the spaces provided and the spaces of the spaces of the spaces of the spaces. 36. The spaces are the spaces of the	Andry and the had the same number of effects at that. Don used 3000 sideons, in the end, Andry and times as many stateous or their. (a) How many elektron and Annry after or their both of them would have the attention and Annry agree of their again? Before Annry Annry Annry Annry Annry Annry Annry Annry Annry Annry A	Ans. (10) 4/800 [2]
35. There was a basis of 180 green boards were removed, from was an equal number of green baseds and 12 red baseds were removed, there was an equal number of green baseds and red basis left. From Traily red basis were there of the red from the removed from the red	40. Mair home, the bank, the suppremented, the ahopping contro and the playargoid are decembed as several files against 1918 below. Part	Ans: (a) northcost [1] (b) South _ west [1] (c) playstant

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