

PRELIMINARY EXAMINATION 2022

PRIMARY 6

PAPER 1 (BOOKLET A)

Total Duration for Booklets A and B: 1 hour

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.
- 5. The use of calculators is **NOT** allowed.

Name:		()
Class:	Primary 6 ()		

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)

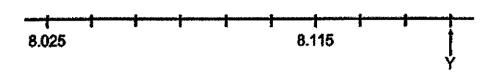
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1	TABLE	7700	JU W	13 153	1 10010	ADAL FILM	

- (1) 748 800
- (2) 748 900
- (3) 748 950
- (4) 749 000

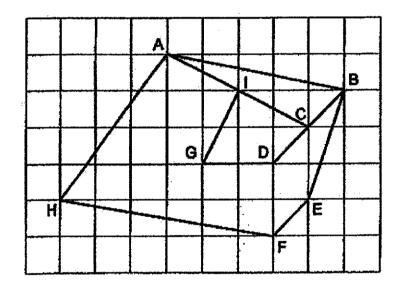
2 10 hundredths and 75 thousandths is	
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- (1) 0.085
- (2) 0.175
- (3) 0.760
- (4) 0.850

In the number line below, what is the value of Y as indicated by the arrow?

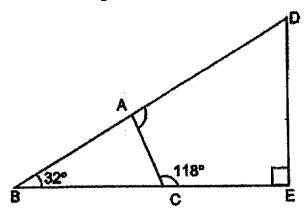


- (1) 8.130
- (2) 8.145
- (3) 8.160
- (4) 8.175
- 4 Which pair of lines in the square grid are parallel?

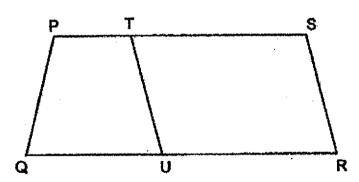


- (1) AH and BE
- (2) Gl and AC
- (3) AB and HF
- (4) BD and EF

5 BCE and DAB are straight lines. Find ∠DAC.



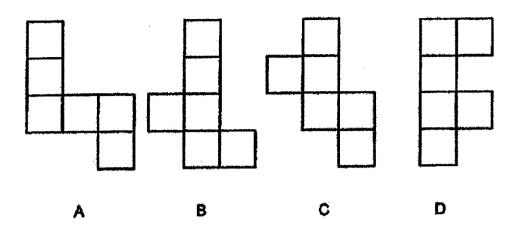
- (1) 148°
- (2) 94°
- (3) 86°
- (4) 62°
- 6 PQRS is a trapezium and RSTU is a parallelogram.



Which of the following pair of angles gives a sum of 180°?

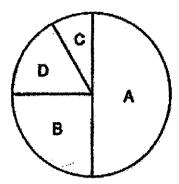
- (1) ∠QPT and ∠PTU
- (2) ∠TSR and ∠UTS
- (3) ∠TUR and ∠TSR
- (4) ∠PQU and ∠URS

7 Which two of the following are nets of a cube?

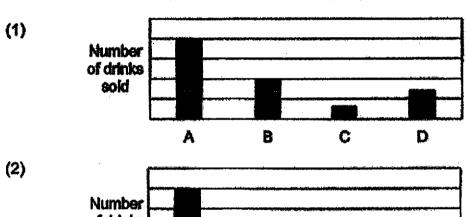


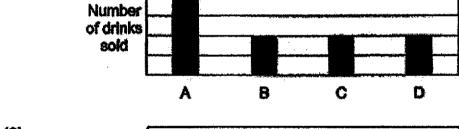
- (1) A and B
- (2) A and C
- (3) B and C
- (4) C and D
- 8 Huiling had \$z. Ravi had twice as much money as Huiling. Jas had \$5 more than Ravi. If Jas had \$10, how much money did Huiling have?
 - (1) \$30
 - (2) \$7.50
 - (3) \$3
 - (4) \$2.50

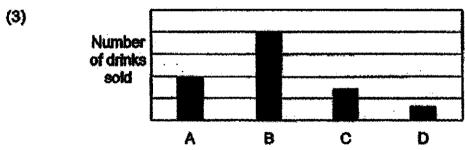
9 The pie chart shows the number of four types of drinks sold in the school canteen.

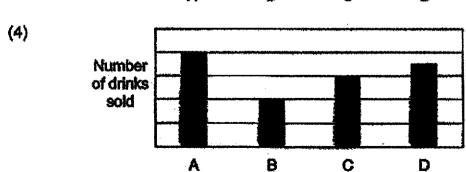


Which bar graph best represents the information in the pie chart?

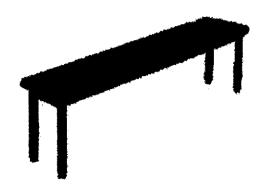






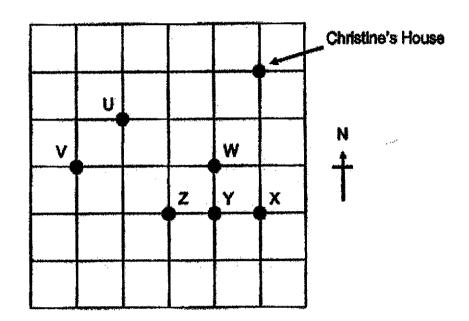


Which of the following is likely to be the length of a bench in the school canteen?



- (1) 1.8 cm
- (2) 18 cm
- (3) 1.8 m
- (4) 18 m
- 11 Which of the following fractions is closest to $\frac{4}{5}$?
 - (1) $\frac{3}{5}$
 - $(2) \quad \frac{5}{6}$
 - (3) $\frac{7}{9}$
 - (4) $\frac{9}{10}$

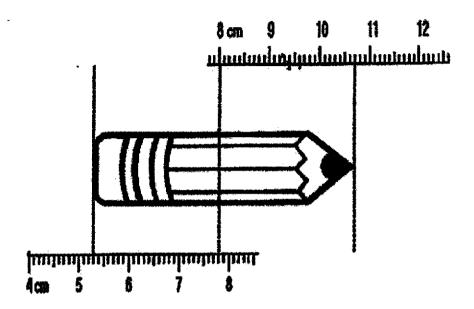
The square grid shows the positions of the buildings U, V, W, X, Y and Z.



Christine stands at a location south-west of her house and east of a building. When facing south-east from Christine's location, she sees a building. What is that building?

- (1) Building W
- (2) Building X
- (3) Building Y
- (4) Building Z

13 What is the length of the pencil shown below?



- (1) 5.2 cm
- (2) 5.4 cm
- (3) 5.6 cm
- (4) 10.7 cm

14 Viv, Wendy and Xinyl each had some beads. They each used the same number of beads to make a neckdace. Viv used $\frac{1}{3}$ of her beads, Wendy used $\frac{7}{8}$ of her beads and Xinyl used $\frac{3}{4}$ of her beads. What was the ratio of the number of beads Viv had at first to the number of beads Wendy had at first to the number of beads Xinyl had at first?

- (1) 1 ; 7 ; 3
- (2) 3 : 8 : 4
- (3) 8 : 21 : 18
- (4) 63 : 24 : 28

15 The first 7 numbers of a number pattern are given below.

What is the 13th number?

- (1) 128
- (2) 256
- (3) 512
- (4) 1024



PRELIMINARY EXAMINATION 2022

PRIMARY 6

PAPER 1 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour

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.
- 5. The use of calculators is NOT allowed.

Name:		 ()
Class: Primary 6 ()	· .	٠

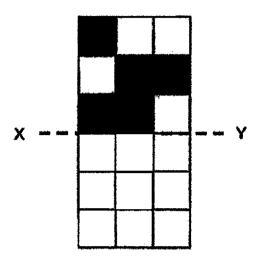
Booklet B

125

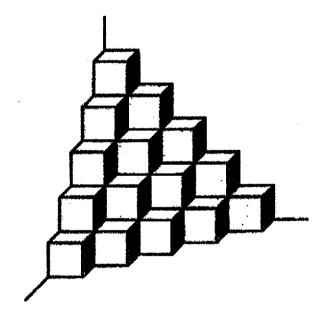
Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

6	Mr Ahmad had 2 bags of marbles. One of the bag contained 6 red marbles and 3 blue marbles. The other bag contained 2 red marbles and 4 yellow marbles. What fraction of the total marbles from both bags
	were red marbles?
	Ans:
7	Find the value of 3.707 t + 1.373 t Express the answer in litres and millilitres.
	Ans: t n

There are 5 shaded squares in the figure. Shade 5 more squares to form a symmetric figure with XY as the line of symmetry.

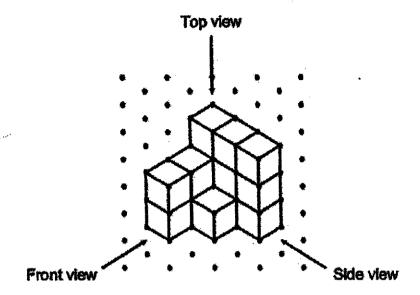


19 The solid below is made up of 1-cm cubes. What is the volume of the solid?

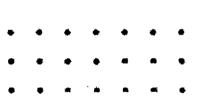


Ans:	cm ³
2 20 0423	***

20 Parminder stacked 14 unit cubes and glued them together to form the solid below.



Draw the side view of the solid on the grid below.



Side View

Questions 21 to 30 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. (20 marks)				
21	A faulty traffic light had its red light bilight blinking every 3 seconds and seconds. If all three lights blink now all blink together again?	The state of the s		
	· · · · · · · · · · · · · · · · · · ·			
		Ane: S		

22	Mr Liew paid \$78.59 for a pair of shoes and \$19.90 for a towel.
	(a) How much did he spend altogether? Round the answer to the nearest dollar.
	Ans: (a) \$
	(b) Find the cost of 30 such towels.
	America Abril 188
Carles (Announce	Ans: (b) \$
23	A day camp tasted 8 h 20 min. The day camp started 1 h 45 min before the snack break. Snack break was at 11.30 a.m. What time did the day camp end? Give your answer in 24-hour clock.
	Ans:
FC-1-44	

saved \$180 more per month Maggie's monthly savings?	n. Yanat was the perc en	trage increase
•		
There were 1338 big buns a were packed into begs. E	ach bag contained 1 big	bun and 6 st
	nd 7982 small buns in a fa ach bag contained 1 big	bun and 6 sr
were packed into bags. E	nd 7982 small buns in a fa ach bag contained 1 big	bun and 6 sr
were packed into bags. E	nd 7982 small buns in a fa ach bag contained 1 big	bun and 6 sr
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were packed into bags. E	nd 7982 small buns in a fa ach bag contained 1 big	bun and 6 sr

In 2021, Maggie saved 20% of her monthly salary of \$3000 each month. In 2022, Maggie received an increase in her monthly salary and she

24

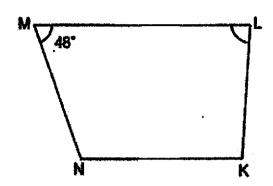
26 Mrs Chen sold $\frac{1}{3}$ of her apples on Monday. She sold $\frac{2}{3}$ of the remaining apples on Tuesday. Mrs Chen had 14 apples left after selling apples on Monday and Tuesday. How many apples did Mrs Chen have at first?

Ans:	
------	--

27° Mary had a roll of ribbon with a total length of 1 m. She cut off $\frac{1}{5}$ m of the ribbon. The remaining length of the ribbon was cut into shorter pieces of length $\frac{1}{8}$ m each. At most, how many pieces of $\frac{1}{8}$ m long ribbon did Mary have in the end?

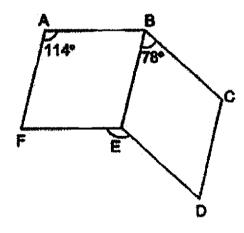
Ans:	
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In the figure below, KLMN is a trapezium and LM is parallel to KN. \angle LMN = 48° and \angle MNK is $\frac{3}{2}$ times of \angle MLK. Find \angle MLK.



Ans:	
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29 ABEF and BCDE are parallelograms. \angle FAB = 114° and \angle EBC = 78°. Find \angle DEF.



Ans:	•	
, 410,	***	

Ans:k	0	Pam Bakery uses <i>m</i> kg of sugar each more sugar than Sweet Bakery each kilograms of sugar do Pam Bakery and year?	month. If $m = 100$, how man	ľ
			Ans:	kg

30

End of Paper



PRELIMINARY EXAMINATION 2022

PRIMARY 6

MATHEMATICS PAPER 2

Duration: 1 hour 30 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.
- 5. The use of an approved calculator is allowed.

Name:()	
Class: Primary 6 ()		
Parent's Signature:	Booklet A	/ 20
	Booklet B	/ 25
	Paper 2	/ 55
	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 1 to 5 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. (10 marks)

The original price of a book was \$k. David bought 15 such books. After he was given a discount of \$10, he paid a total of \$110. What was the original price of one such book?

2 The table below shows the charges for renting a bicycle.

	Days	Time	Charge
23	Adam to Ed	7 a.m. to 5 p.m.	\$4 per hour
WALL CO	Mon to Fri	5 p.m. to 9 p.m.	\$8 per hour
(B)	Sat and Sun	7 a.m. to 9 p.m.	\$12 per hour

On Friday, Mr Wu rented a bicycle and returned it at 6 p.m. He paid a total of \$24. For how many hours did he rent the bicycle?

Ans: t	١
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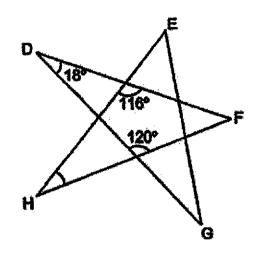
3	Ji Min saved some money in April. She saved \$2.50 per day for days. She then saved \$3.10 per day for the rest of the month.	
	was the average amount of money she saved per day in April? (The are 30 days in April.)	

Ans: \$_____

Dana bought an oven from Shop A at 15% discount during a sale. The price of the oven was \$800 before discount at Shop A. Halley bought an identical oven from Shop B at 20% discount and paid the same amount as Dana. What was the price of the oven before discount at Shop B?

Ans: \$_____

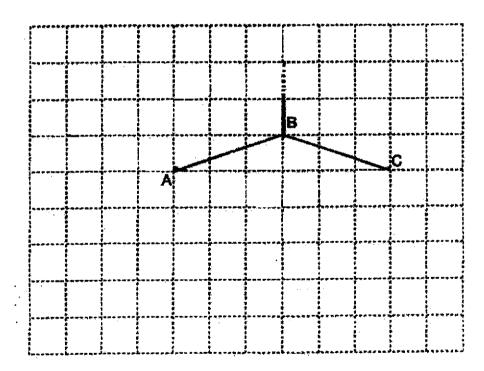
5 The figure is formed by 5 straight lines DF, EH, EG, FH and DG. Find ∠EHF.



Ans:

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 In the square grid below, AB and BC are straight lines.
 - (a) AB and BC form two sides of a rhombus ABCD. Complete the drawing of the rhombus ABCD. [1]
 - (b) AB also forms one side of a trapezium ABEF. AB is parallel to EF. The length of EF is twice the length of AB. DAF forms a straight line and AD = AF. Complete the drawing of trapezium ABEF such that it does not overlap with the rhombus.
 [2]



7	Peter had \$18.20 less than Jane at fill money to Peter, he had \$29.20 more Jane give to Peter?	irst. After Jane gave some of her than her. How much money did	
		, mare	
in marken i n			
un Hamp ,			
		· ·	
		Ans: [3	1

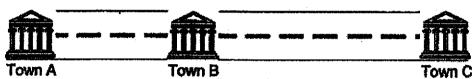
Kira had a roll of blue paper and a roll of red paper. The length of the roll of blue paper is $\frac{1}{2}$ the length of the roll of red paper. She cut the roll of blue paper into equal parts of length 9 cm and on each part she drew 3 star shapes. After that, she cut the roll of red paper into equal parts of length 7 cm and on each part she drew 5 heart shapes. What fraction of the shapes Kira drew were star shapes?

Ans:	[3
	Į.

Pour towns A, B, C and D collected plastic bottles to be recycled. Town A and B collected an average of 324 plastic bottles. Town B, C and D collected an average of 344 plastic bottles. The total number of plastic bottles collected by all 4 towns was 6 times the number that town B collected. How many plastic bottles did town B collect?

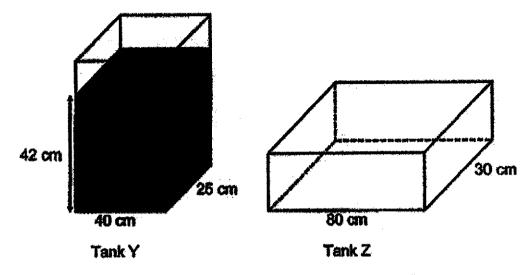
Ans: [3]

Mr Toh left Town B and drove to Town C at 11 a.m. at a constant speed of 60 km/h. Mr Lee left Town A at 12 noon and drove to Town C at a constant speed of 80 km/h. Town A and Town B were 15 km apart. After travelling from Town A to Town B, Mr Lee then travelled to Town C along the same route as Mr Toh. At what time did Mr Lee catch up with Mr Toh?



Ans: [3]	
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11 Tank Y and Tank Z are two rectangular tanks. At first, Tank Y contained some water to a height of 42 cm and Tank Z was empty.



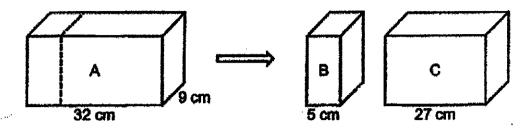
(a) What was the volume of the water in Tank Y at first?

Ans:	(a)	ľ1	٦
LM SO:	(a)	 f.	d

(b) Kanthea poured some water from Tank Y into Tank Z. After that, Tank Y had $\frac{2}{5}$ as much water as Tank Z. Find the height of the water level in Tank Z.

Ans:	(b)		[3]
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A rectangular block A was cut along the dotted line into two smaller rectangular blocks of equal height, B and C, as shown below. The volume of block B was 4752 cm³ less than that of block C.



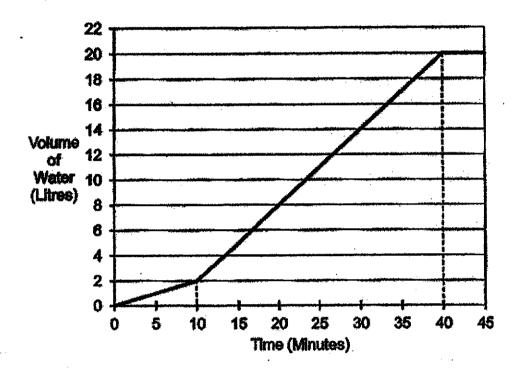
(a) What was the height of each block?

Ans: (a)	***************************************	[2
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(b) Matthias packed 12 of block C such that they fit exactly into a box with a square base. The box had the same height as block C. At most, how many of block B can be packed into such a box?

Ans: (b) _____[2]

JI Eun filled a tank with water using two taps, Tap A and Tap B. She turned on Tap A first. After 10 minutes, she turned on Tap B. Both taps were turned off at the same time when the tank was completely filled. The graph below shows the amount of water in the tank over 45 minutes.



(a) What was the capacity of the tank?

Ans:	(a)	 [1]

(b) How many litres of water flowed from Tap B per minute?

Ans: (b)		[3]
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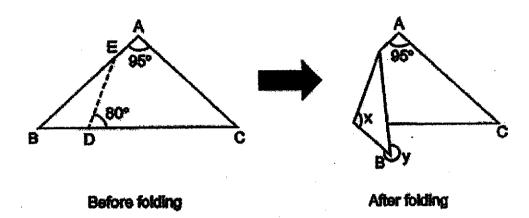
- 14 Mariam had some gold, some silver and some copper tokens for a carnival. The ratio of the number of gold tokens to the total number of silver and copper tokens was 10:9. The ratio of the number of silver tokens to the number of copper tokens was 3:1. She exchanged 12 gold tokens for a stuffed toy and some silver tokens for a jar of marbles. In the end, the ratio of the number of gold tokens to the number of copper tokens became 4:1 and the ratio of the number of silver tokens to the number of copper tokens became 4:3.
 - (a) What was the ratio of the number of gold tokens to the number of silver tokens to the number of copper tokens Mariam had at first?

Ans:	(a)		[1]
------	-----	--	----	---

(b) How many silver tokens did Mariam exchanged for the jar of marbles?

Ans: (b) ______[3]

ABC is a triangular piece of paper with AB = AC. ∠BAC = 95°. AEB and BDC are straight lines. The paper is then folded along the line DE as shown below.



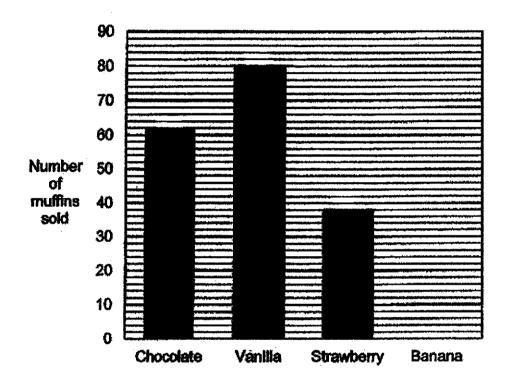
(a) Find ∠x.

Ans:	(a)	and the second s	[2]
4 40 4 300 4	4		2000

(b) Find ∠y.

Ans: (b)		2		
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A shop sells four types of muffin. The bar graph shows the number of each type of muffin sold by the shop. The bar for the number of banana muffins sold has not been drawn. The number of banana muffins sold was $\frac{3}{5}$ the number of vanilla muffins sold.



(a) How many banana muffins were sold?

Ans:	(a)		[1]
t HIV.	(m)	·	F. 7

(b) The table below shows the prices of the multins.

Type of mulfin	Price per muffin
Chocolate	\$0.85
Vanilla	\$0.70
Strawberry	\$1.35
Banana	\$1,20

From the sales of which type of mulfin did the shop collect the most money? What was the amount of money?

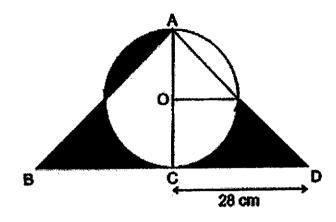
Ans:	(b)	Muffin:	
		Amount:	[2

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

Statement	True	Faise	Not possible to tell
The number of chocolate muffins sold was 62.			
The ratio of the number of strawberry muffins sold to the number of strawberry muffins left unsold was 3:2.			
The shop sold 46 boxes of 5 muffins.			

The figure below is made up of a semicircle, 2 identical quarter circles and 2 identical right-angled isosceles triangles, ACB and ACD. CA = CB = CD. O is the centre of the circle. AOC and BCD are straight lines. Find the total area of the shaded parts.

(Take x = 3.14)



Ans:		[5]
Ans:	• •	 [7]

End of Paper



PRELIMINARY EXAMINATION 2822

PRIMARY 6

MATHEMATICS PAPER 1 (BOOKLETA)

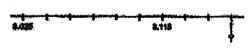
Total Duration for Socklets A and S: 1 hour

Additional materials: Optical Acquer Sheet (QAS)

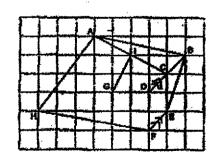
MISTRUCTIONS TO PUPILS

- 1. Clo not tent over this page until you are told to do so.
 2. Police all instructions carefully.
 3. Answer all questions.
 4. Shade your approve in the Optical Answer Sheet (CAS) provided.
 5. The une of calculators is MOT abound.

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Classic Primary 6 ()		



- = 0.015 (3)
- 2-115+ (ADISY>) = 2.15 + 0.045 + 8.110 (ms)



- (II) Altand BE
- (4)
- (4) BD and EF

on 1 to 14 carry 1 mark each. Curefore 11 to 14 carry 2 car country, for eathers are class. Con-offices to the correct

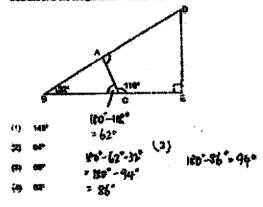
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748 350 % THE 900 (mi) (2)

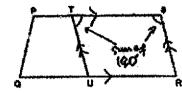
ndadby and 75 throwardist 🕸 _

= 0.175 (AIS) (L)

ace and DAS we straight from . Find 20AC.



PORS to a trapelative and RETU to a parellable

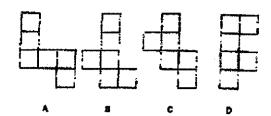


YEARS of the following pair of angles gives a new of 1877?

- DET and LPTU
- ∠TER and ∠UTE
- (2)
- APOU and AURO

LTUR WE LTER

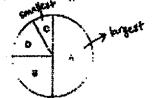
Purity a to along on principal act to our dailer?



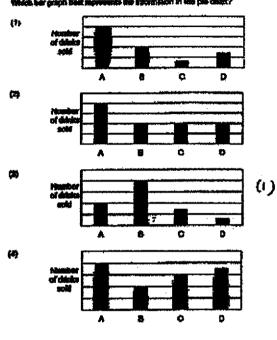
- (1) A and B

- (3)

orn Trace Plant. W.Jose hand \$10, Incommunde a



nto the information in the pie chart?

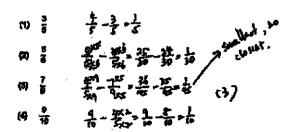




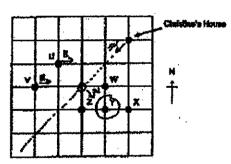
- (1)

(3)

Which of the following functions is consected \$\frac{4}{2} ?

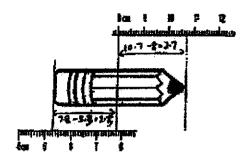


The equals geld shows the predicts of the buildings $U,\,V,\,W,\,X,\,Y$ and



(3)

42 What is the length of the panel allows below?



2.5427=52

- 5.2 and (1)
- (2) & f on
- 5.6 404
- (1)

(0.7 an

- FIRST

NANYANG PRIMARY BCHCOL

PRELIMINARY EXAMINATION 2022

PRIMARY 8

WATHEMATICS PAPER 1 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

- 1. So not turn over this page unit you are told to do so.
 2. Follow all instructions corntally.
 3. Answer all questions.
 4. Write your ensures in this booklet.
 5. The tase of calculations is MCT allowed.

Name		•	. €)
Cléas;	Primary 6 ()		

ı	

/25

Please sign and return the examination paper the be refeed at the some time when returning paper. nd day. Any quaries should 14 Vir. Wordy and Kingle and Earl across beach. They wash used the same expeller of beads to make a problem. We used 4 of her buside. sily used $rac{T}{H}$ of new beside sine Xingi used $rac{3}{T}$ of her beads. White the calls of the number of beatle VIV had at that to the sumber of Wanty had at that to the oursier of beate Anyi had at first?

The Box 7 may



What is the 130 exerter?

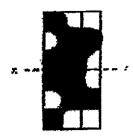
i mank each. With your encours in the spaces this sequina units, give your envisees is the colle (6 made)

hir Alemed had 2 hope of members. One of the hig contained 8 red members and 5 these members. This other has contained 2 red mechan-and 6 yellow-members. What freelige of the total another from both hage were and members?

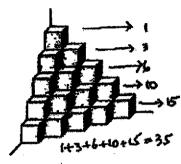
$$\frac{\text{Red}}{\text{total}} = \frac{6+2}{(+3+2t4)} = \frac{8}{(5)}$$
(ans)

Find the water of 3.707 £+ 1,373 £ 17 Express the answer in Mrss and milities.

18 There are 6 sheded agencies in the figure. Sincle 6 incom squares to face a symmetric figure with XY on the fire of symmetry.



10 The sold below is seeds up of 5 cm colon. What is the volume of the solid?



<u> 35</u>

Considers \$1 to 30 casy 2 major and). Show your saiding clearly deal wife your annuaus holes apares provided. For quasilons which require saids, give your annuaus in the orde while it.

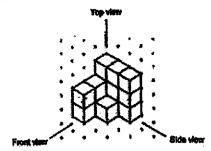
A healty halfs light had he red light history come you common, no account high initiality design if accounts and the green light billed energy it accounts. Full brinding highly highly soon, how young accounts held will from all highly legather against

$$2 \longrightarrow 2, 4, 6, 8, 10 \dots 20, 22. 49$$

 $3 \longrightarrow 3, 6, 9, 12 \dots 19, 21. 49$
 $8 \longrightarrow 6, 16. 49$
(ms)

A= 24

20 Parentider stacked 16 test cabes and gland them together in them the solid below.



Occur the aide year of the solid on the grid below.

-		Side Year	
•			
*	•	• • -1 • •	
•	4	r + feet • •	
	*	} } 	
٠	+	 - - - • •	
٠	٠	* * * * * *	

22 Me Live page \$78.50 for a pair of shoot and \$18.50 for a lovel.

(4) How much did he spend altogether? Record the anether to the

\$78.59+\$19.40 =\$98.49 &\$98(~*)

ANK (N) 4.98

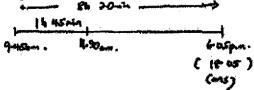
(b) Find the and of 30 such bonds.

\$19.90×30 = \$19.90×3×10 = 4.59.70×10 = \$597 (45)

AL D L 547

24 A day comp leated 0 in 26 ands. The day comp stacked 1 is 45 mishbolices the march break. Streek beauti uses at \$1.20 a.m. What times did the day comp entit. Once your assessor in 34-boar clock.

Els. 2-0-3-----------



18 OF

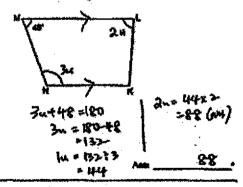
34 In 2021, Magabi mane/203/ of her morthly nativey of \$5000 ands month. In 2022, Magabi received an increase its her manifely nativey and disk varied \$100 mans par month. What were the percentage increase in Magabi's monthly entired?

30 ×

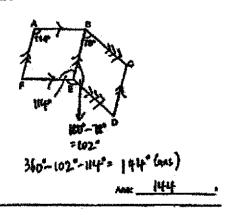
"All There were 1990 big have and 7002 small base in a tastopy. The buse were packed his bage. Unds hag contained 1 big bus and 6 and base. What wer the ground revelue of bage that could be packed?

28 In the Hyper Salon; ELLEY in a trapestors and LLE is provided to 15 L.

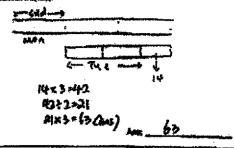
21 May - 40° and 21 MK to \$ thousand 21 MK. Find 21 MK.



25 ASEP and BOOR was parallelograms. ∠PAS = 114° and ∠EBC = 78°. Plod ∠DEF.



20 Min Chan soll of the applies on Monday. The sold of the monthing expline on Theodox. Min Chan had 34 applies that solar solling applies on blanday and Theodox. How many applies all him. Chan have at larger



27 Many field a sell of abbon with a total langth of 1 m. She cut off \$\frac{1}{8}\$ at of the dibbon. The missioning langth of the dibbon was cut late shorter plants of langth \$\frac{1}{8}\$ m each. At most, how many places of \$\frac{1}{8}\$ m boar dibbon did histy time to the each?

50 From Mattery was an left of unique each matrix. From Sintraly mean \$9 kg many unique from Servet Statuny each matrix. If or = 100, how many fillegrows of sugar do From Salancy and Served Salancy use in this for drawn

End of Paper



NANYANG PRIMARY SCHOOL

PRELIMINARY EXAMINATION 2022

PRIMARY 6

MATHEMATICS PAPER 2

Duration: 1 hour 30 minotes

IMS TR	EUCTIONS	10	PUPES

- Do not turn over this page until you are told to do so.
 Follow all instructions carefully.
 Answer all questions.
 Write your answers in this booket.
 The use of an approved calculator is allowed.

Name:	,	
Class Primary 8 ()		
Parente Bignetiure:	Booldel A	/ 20
	Booldet B	Ĵ 25
	Paper 2	/15

Please algo and return the ejeculosition paper the r be relead at the same time when returning paper.

ôn aantd stepp separy in April. She word \$2,60 per s. She then equal \$3,10 per day for the east of the per ere 50 days in April.)

Ame \$ 2.70

Done bought un even from Shop A et 18% discount disting a sule, price of the even was \$500 hallow discount at Shop A. Sinley by an Market from Ston Shop B. at 20% discount and paid the su amount as Duras. What year the price of the even before discount Shop 87

After a discount of 20%,
Haby paid 80% for \$100
80% of ship 8->
$$\frac{100}{10} \times $150 = $150$$

Z.

y 2 minutes such. Show your working closity and visite was provided. For quantities which require units, give

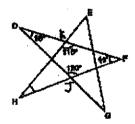
The original price of a book ross Sk. David bought 15 such bushs. After he was gloss a discount of \$10, he paid a total of \$1.10. What was the original price of one such book?

Ame: 9. 8

	Days	Time	Charge
3	Man to Pai	7 a.m. to 6 p.m.	\$4 per trour
		Som to Posts	to per hour
	Section # Sun	Yam beam.	\$12 per leptar

On Pidday, hir The semined a biografa and subarred IT ATA' pure. The part is local of \$24. For how wanny bowns all his more the bioycle?

The figure is formed by 5 straight lines DF, EH, BO, All and DQ. First ASSE.



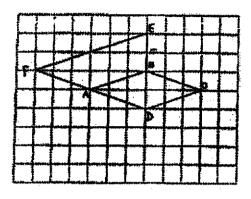
h A DF3, ZDFH = 180- 120'-18' - 42'

L A KFH, LEHF: 18"-116"-42" z 22° ··

22

For questions 8 in 17, abour your working closely and wife your accuses to the specure provided. The number of marks gradules in about to backets [] of fine and of each special control of the provider of party quantities.

- To the equipp grid below, All and BC and straight three.
 - ta: A6 and 80 farm too sides of a mountain AGCD. Complete An desiring of the mountain AGCD.
 - (b) AS also from one other of extraposition AEEF. As impossing to by: The larges of EFF is batter the larges of AEE. CAF frame a stocked that and AD AFF. Compiles the decading of imposition AEEEF with that Educa potentiap with the discussion.



Point had \$18,20 tons then Jens at Test. After Jean gave recen of her should be Peloc for that \$26,20 erors from her. How such somey did arm of the Test of the Peloc for the Peloc f

#23.70 PA

6 Nea had a sell of the apper seed a rell of end paper. The length of the seed of each paper. The paper by 2 the bength of the sell of each paper. The paper sed of blow paper into aquel pasts of brought 10 cm and an each paul stee dieser 3 star strapes. After that, sine out the sell of each paper hap aquel pasts of bright 7 cm and on each paul sine others 5 from the paper. What tracition of the attempts if the deservoire sine chapter?

Pour tonne A, E, C and E collected platforbullion in he recycled. Yours A and B collected an emerge of 304 platfor hellow. Tiges B, C and O collected an energy of 344 platforbullia. The local survey of platforbullia. The local survey of platforbullia collected by all 4 feature was 9 feats the employ first true B subjected. Howevery plantforbullia collected.

4 240 m

the You left Town IS and stove to Town C at 11 mm, at a constant speed of 60 km/h. Mr Lee left Town A at 12 most and drove to Town C at a constant speed of 60 km/h. Town A and Town G were 15 km speed.

After traveling from Town A to Town II, Mr Lee then terrolled to Town C along the serve route as hir Toh. At what there did fill Lee cales up with



When the Lee left Town A at 12 moon. Mr The world be a distance army

of :-

15 km + (Specker X Timeron)

= 15km + (60km/h x 1h)

ISM + GOEM

75 km

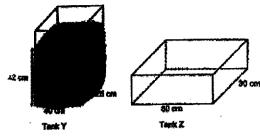
Difference in their speed 80 m/h - 60 m/h

= 20 km/h

Time need for Mrice to author: 75bm 4 20bm/h = 3\$h 34h after 12 nm 15 845pm.

Ann 3.45pm. 19

Torsk Y and Tank Zare two reclaration tooles. At first, Tank Y contains disease water to a taught of 42 cm and Torsk Zwas empty.



(a) What was the volume of the water in Tank Y at first? 40×25×42= 42 000

Ans 14 42 000 cm3

es pouved some empler from Tack Y lefts Tack Z. Al Think Y had $\frac{2}{8}$ so souch vector on Turk 2. Find the height of the

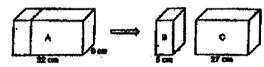
Y: Took 2: Tech 2:5:7

> M -- 42 000 IU-> 42000 17 = 6000

TWL Z + 54 . 5x 6000 30000

Hest

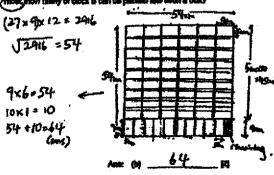
Volume & Ruse Hee 30000 + (80 MES)



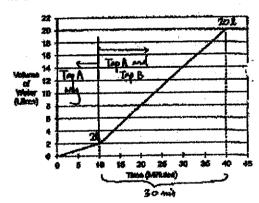
(a) What was the height of each block?

34 cm Anat (a) "

Modifies partent 12 of block C such that they R to wife a square base. The box had the semb height (modifiers many of thock B can be packed into end



ndik water turky ben tope, Tup A mod Tep S. She at. After 10 minutes, she turned on Tep B. Soft If at the seuse time white the turk was completely nd on Thip A fin us the amount of water in the



o the capacity of the total? Tank follow from 40% mounts.

(b) How many three of color towns from Tap B per mirecte?

Top A -> 28 = 10 min ~ 61 à 30mb

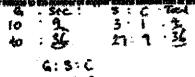
Top A and Topk -> 182 is 30 min

To B my is 30 mi - + 181-66 = 126

Type -> 121 = 0.42 lais # HZ Ana: (b)

19 5 : 1. Who east

Colore



40:27:9

After

succe no change for capper.

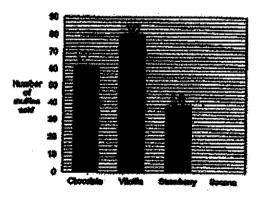
36: 9

6: S:C 36: 12: 9

404-364-44

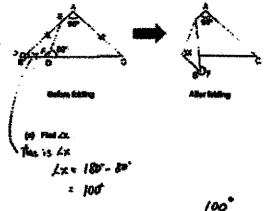
44 -> 12

A shop selfs four upper of moder. The being paper shows the number of each type of multipleacht by the chicp. The tear for the manteur of banana modime soils had not been drawn. The member of became market with tran a the resolver of visite excitoe sold.



48

ADG is a trimpolar phose of paper with AB > AG. _CBAC < 60°, _A<u>res</u> and BDG are shalpfellines. The paper is that falsed along the fine DB



(I) Flod 4:

= 42.5°

317.5

ANK (8) 317.5"

(b) The table below phone the prices of the receives.

Type of section	Priese sub regulation
Chosenia	58.66
Verific	9 0.70
Streetper	
Danana	6120

n that salva of which type of motion did the whop collect the most my? - What was the amount of money?

Chamble -> 62x \$0.25 - 352.70 Verille - 30 x 40.70= \$56 Shanburg -> 38x41.35. \$51.30

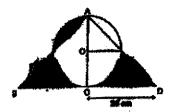
Bun -> 47×\$1.20 = \$57.60

AND DI MANY BEYERS Amount \$57.50 ps

ės belovis atherinja, laba orasi paudilis ir kai glios, Tir sach stalament, puts sidi (r)

	•			
		Teue	#aine	Hot pendide to tell
	The muniper of chotolete multime cold web 62.	>		
Andorg his old. Had droke 3.	The case of the number of alcorducy southern sold to Survanion of Alcorducy southern that month was 3 : 2.		V	
	The shap sold 46 boxes of 5 million.		V	

46x5 9 230 Bif that making sall were 624 to 438448 or 328 17 The figure below in made up of a venticité, 2 Moritori quarter decime and 2 stantioni diplacected incoming triangles, ACB and ACD, OA = CB = CB. O is the process of the detain. ACB and BCD are straight time. Find the high wron of the stantini poets. (Take n = 3.14)



Area of Equator Close $\Rightarrow \frac{1}{4} \times \frac{3.14}{4} \times \frac{14}{4} \times \frac{153.86}{4}$ Area of equal temple $\Rightarrow \frac{1}{2} \times \frac{14}{4} \times \frac{14}{4} \times \frac{9.8}{4}$ Area of half land $\Rightarrow 153.86 - 99 \times 55.86$ Area of langua $\Rightarrow \frac{1}{2} \times \frac{29}{4} \times \frac{28}{4} \times \frac{39.2}{4}$ 153.86 $\Rightarrow 98 \times \frac{29}{4} \times \frac{28}{4} \times \frac{39.2}{4}$ 140.14 $\times 2 = 280.28$ Area of shall parts $\Rightarrow 280.28 + 55.86$ Area of shall parts $\Rightarrow 280.28 + 55.86$ Area of shall parts $\Rightarrow 336.14$

End of Paper