

# PRELIMINARY EXAMINATION 2022

# **PRIMARY 6**

# MATHEMATICS PAPER 1 (BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

### **INSTRUCTIONS TO PUPILS**

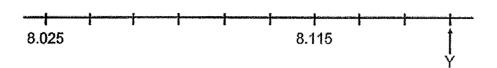
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is NOT allowed.

Name:	(	•	)
Class: Primary 6 (	)		

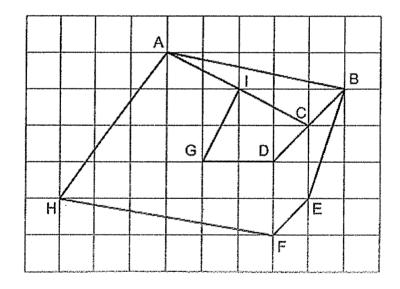
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

7	Kou	nd 748 850 to the nearest hundred.
	(1)	748 800
	(2)	748 900
	(3)	748 950
	(4)	749 000
2	10 h	undredths and 75 thousandths is
	(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?

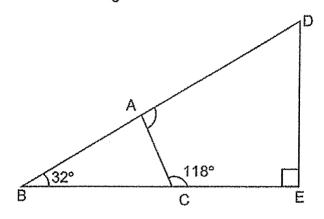


- (1) 8.130
- (2) 8.145
- (3) 8.160
- (4) 8.175
- Which pair of lines in the square grid are parallel?



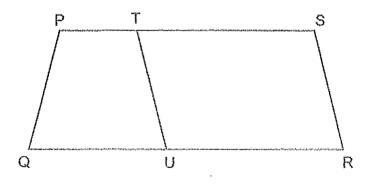
- (1) AH and BE
- (2) GI and AC
- (3) AB and HF
- (4) BD and EF

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



- (1) 148°
- (2) 94°
- (3) 86°
- (4) 62°

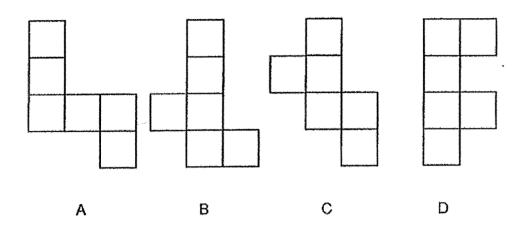
6 PQRS is a trapezium and RSTU is a parallelogram.



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

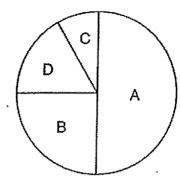
- (1) ∠QPT and ∠PTU
- (2) ∠TSR and ∠UTS
- (3) ∠TUR and ∠TSR
- (4) ∠PQU and ∠URS

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?

- Number of drinks sold

  A B C D
- Number of drinks sold

  A
  B
  C
  D
- Number of drinks sold

  A B C D
- Number of drinks sold

  A B C D

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

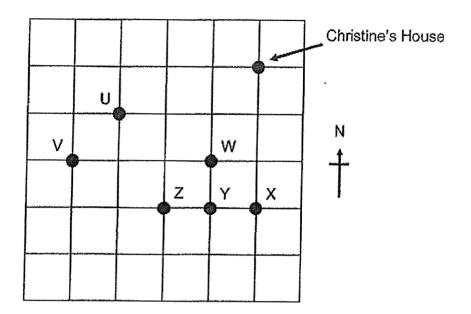


- (1) 1.8 cm
- (2) 18 cm
- (3) 1.8 m
- (4) 18 m

11 Which of the following fractions is closest to  $\frac{4}{5}$ ?

- (1)  $\frac{3}{5}$
- (2)  $\frac{5}{6}$
- (3)  $\frac{7}{9}$
- (4)  $\frac{9}{10}$

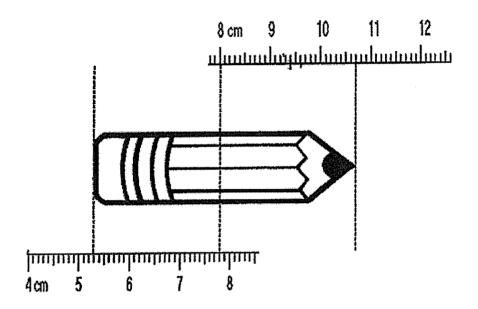
The square grid shows the positions of the buildings U, V, W, X, Y and Z.



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

# 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 Xinyi each had some beads. They each used the same number of beads to make a necklace. Viv used  $\frac{1}{3}$  of her beads, Wendy used  $\frac{7}{8}$  of her beads and Xinyi 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 Xinyi had at first?

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

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**

# MATHEMATICS 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 (	)			

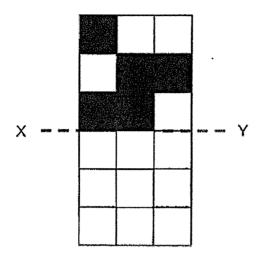
Booklet B

/ 25

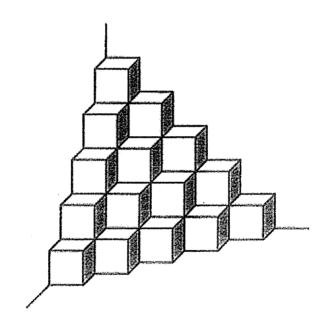
Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

ded. For questions which require units, give your answers in the units d. (5 marks)
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:
Find the value of 3.707 £ + 1.373 £ Express the answer in litres and millilitres.
Ans: t ml

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

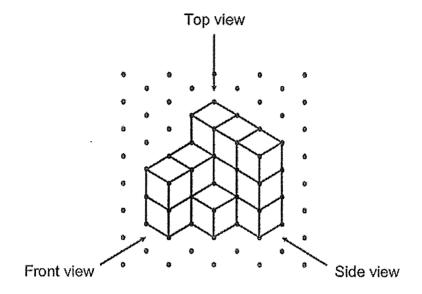


The solid below is made up of 1-cm cubes. What is the volume of the solid?



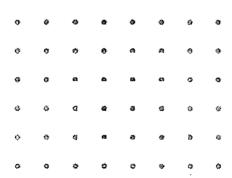
Ans:	S 1940 S S S S S S S S S S S S S S S S S S S	cm <sup>3</sup>
------	--	-----------------

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.





your a	tions 21 to 30 carry 2 marks each. Show your working clearly and write answers in the spaces provided. For questions which require units, give answers in the units stated. (20 marks)
21	A faulty traffic light had its red light blinking every 2 seconds, its amber light blinking every 3 seconds and its green light blinking every 8 seconds. If all three lights blink now, how many seconds later will they all blink together again?

Ans:

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.
	Ans: (b) \$
23	A day camp lasted 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:

24	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 saved \$180 more per month. What was the percentage increase in
	Maggie's monthly savings?
	Ans:%
25	There were 1338 big buns and 7982 small buns in a factory. The buns were packed into bags. Each bag contained 1 big bun and 6 small buns. What was the greatest number of bags that could be packed?
	· · · · · · · · · · · · · · · · · · ·
	Ans:

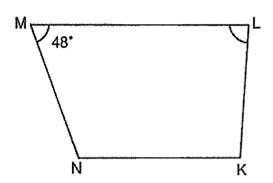
26 Mrs Chen sold  $\frac{1}{3}$  of her apples on Monday. She sold  $\frac{2}{3}$  of the remaining apples on Tuesday. Mrs Chen had 14 apples left after selling apples on Monday and Tuesday. How many apples did Mrs Chen have at first?

Ans:

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?

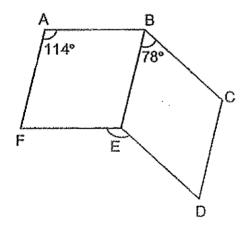
Ans: \_\_\_\_\_

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.



Ann	٥
Ans:	

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



Ans:	0	
1.010		

30	more sugar than Sweet Bakery exkilograms of sugar do Pam Bakery exyear?	ech month. If $m = 100$ , how r	nany
		Ans:	. kg

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)

1 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?

Ans: \$	
---------	--

The table below shows the charges for renting a bicycle.

	Days	Time	Charge
是别	Mon to Fri	7 a.m. to 5 p.m.	\$4 per hour
	MOTTO FIT	5 p.m. to 9 p.m.	\$8 per hour
M. M.	Sat and Sun	7 a.m. to 9 p.m.	\$12 per hour

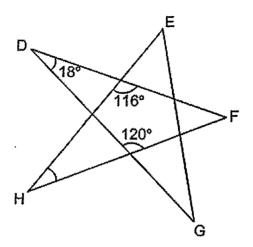
On Friday, Mr Wu rented a bicycle and returned it at 6 p.m. He paid a total of \$24. For how many hours did he rent the bicycle?

Ans:	to the state of th	h

3	Ji Min saved some money in April. She saved \$2.50 per day for 20 days. She then saved \$3.10 per day for the rest of the month. What was the average amount of money she saved per day in April? (There are 30 days in April.)
	Ans: \$
4	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. Hailey 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: \$

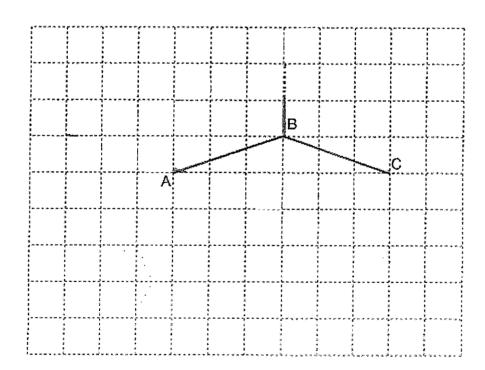
5 The figure is formed by 5 straight lines DF, EH, EG, FH and DG. Find ∠EHF.



Ans:	o

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.



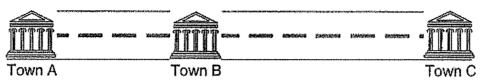
7	Peter had \$18.20 less than Jane a money to Peter, he had \$29.20 mg Jane give to Peter?	at first. After ore than her.	Jane gave som How much mo	e of her oney did
		Ans:		[3]

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]	
	 101	

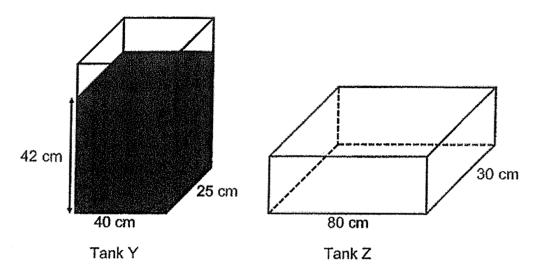
9	Four towns A, B, C and D collected A and B collected an average of collected an average of 344 plast bottles collected by all 4 towns collected. How many plastic bot	324 plastic bottles. Town ic bottles. The total num was 6 times the number	n B, C and D ber of plastic
		Ans:	[3]

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]

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.



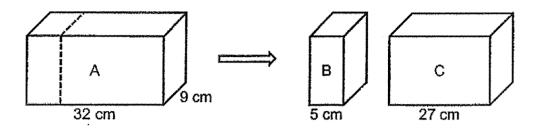
(a) What was the volume of the water in Tank Y at first?

Ans:	(a)		[1]	ſ
2 40 1431	\w.	A SAME AND	1:1	

(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]

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 cm<sup>3</sup> less than that of block C.



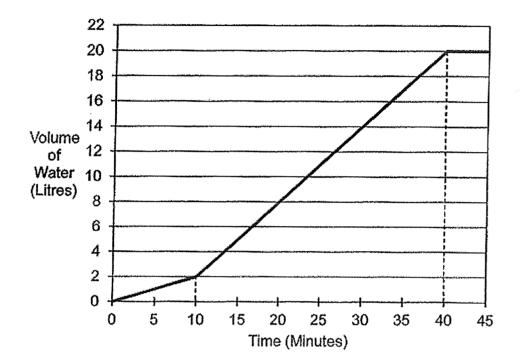
(a) What was the height of each block?

Ans: (a) [2	Ans: (	***************************************	[2	,	]
-------------	--------	---	----	---	---

(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)		E	1	J
------	-----	--	---	---	---

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

Ans:	(b)		[3]
		***************************************	

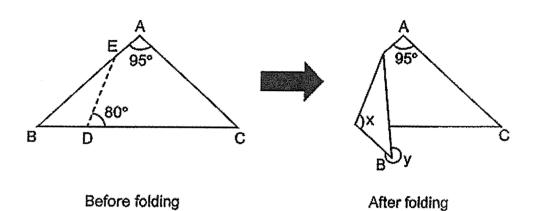
	carnival. The ratio of the number of gold tokens to the total number of silver and copper tokens was 10:9. The ratio of the number of silver tokens to the number of copper tokens was 3:1. She exchanged 12 gold tokens for a stuffed toy and some silver tokens for a jar of marbles. In the end, the ratio 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)	namen and a superior and the state of the st	[1]
(b)	How many marbles?	silver	tokens	did	Mariam	exchanged	for the	jar of

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.



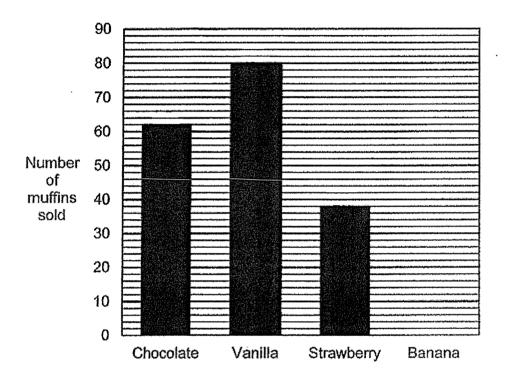
(a) Find ∠x.

Ans: (a) \_\_\_\_\_[2]

(b) Find  $\angle y$ .

Ans: (b) \_\_\_\_\_[2]

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]

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

Type of muffin	Price per muffin
Chocolate	\$0.85
Vanilla	\$0.70
Strawberry	\$1.35
Banana	\$1.20

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

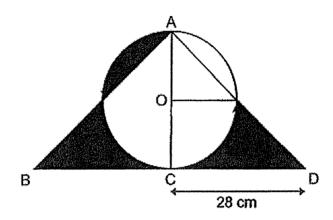
Ans:	(b)	Muffin:		
		Amount:	k	[2]

(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.			

[2]

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  $\pi = 3.14$ )



Ans:	151
ALIO.	 [~]



#### PRELIMINARY EXAMINATION 2822

#### PRIMARY 6

#### MATHEMATICS PAPER 1 (BOOKLET A)

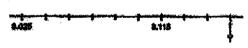
Total Duration for Sockiets A and S; 1 hour

Additional materials: Optical Acquer Sheet (QAS)

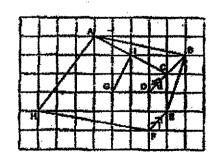
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- 1. Clo not tast over this page until you are told to do so.
  2. Follow all histochors carefully.
  3. Answer all questions.
  4. Shade your approve in the Optical Answer Sheet (OAS) provided.
  5. The une of calculators is MOT, allower.

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Class: Pilmay 6 /	3	



- **4.100**
- = 0.015 (3)
- 5.175
- 2.115+ (A.015×3) = 2.15 + 0.045 + 8.110 (ms)
- White pay of these in the severe god and on

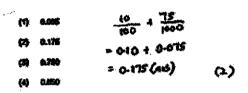


- (II) Altand BE
- GF and AC
- (4)
- (4) BD and EF

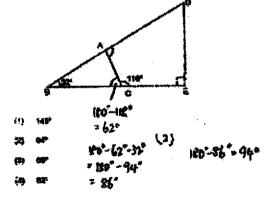
nu 1 to 14 ceny 1 metrosch. Usedione † 1 to 15 ceny 2 metro e h queston, four options are glana. Caso of them is the correct and our choice (1, 5, 5 or 4) and shade your enteror water Optical App

Sylves 7 in 180 to the desired Spirite

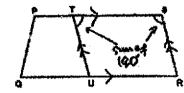
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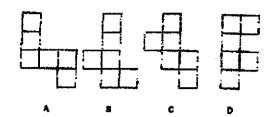


YELES of the following pair of angles gives a sum of 1877?

- DET and LPTU
- ∠TSR and ∠UTS
  - LTUR WILL LTER
  - APOU and AURO

(2)

#### 7 Which two of the following are note of a coluct



- (f) A and B
- IZI A MOST C
- (2) Rand C
- (3)
- (4) Chant D

#### If Milling had \$x. Flevi had butco an much money se Hulling. Just has \$5 recent than Asst. If Just had \$10, how much morney del Hulling haper.

#### 10 Which of the Afforming in Realy to be the hough of a breach in the action contains?

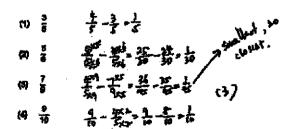


- (1) 1,8 cm
- (Z) 18 cm
- (3) 1.8 m

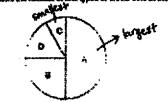
(3)

60 18 m

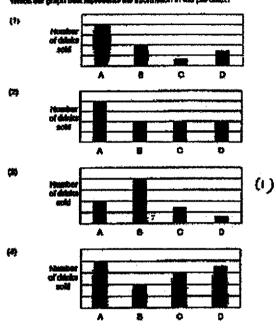
### 19 Which of the following fractions is closest to 🕺 7



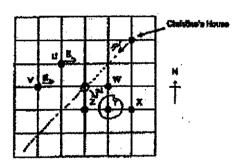
## The glo chart above the number of four types of civies sold in the .



#### Which has graph best represents the information in the pie chart?



# 12 The equate grid shows the prefilose of the buildings U, V, W, X, Y and Z.



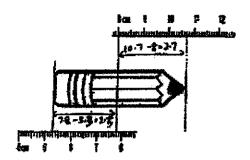
Children abunds at a location south-rest of ten hotest and east of a hallding. When facing worth-rest from Christian's Intelligent between the halldest.

- (1) Building W
- (2) Building X
- (S) Building Y

(3)

45 Avildina 2

#### 12 What is the length of the panel atoms below?



2.5427=52

- 5.2 and (1)
- £4 an (2)
- 5.6 404
- (1)
- 10.7 am

	4	Mar.	
-44	3.3		
	~		

NÁNYANG PRIMARY SCHOOL

#### 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 <a href="https://example.com/

Name:	<u> </u>	
Cléas;	Primary 5 ( )	

/25

or the need day. Any quarion should Please sign and return the examination paper the be refeed at the some time when returning paper.

14 Viv. Wandy and Xiryl each bad source beads. They each used the stems expeller of beads to make a problem. We used 4 of her buside. Wendy used  $\frac{T}{u}$  of new bends and Xingi used  $\frac{3}{4}$  of her beads. What ness the cuits of the cumber of bases Viv had at this to the sumber of in Wantly had at that to the number of bearin Any had at first?

The East 7 may re of a number pattern are pixed below.



What is the 13° exerter?

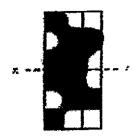
nry 1 mark each. Ville your easoure in the spaces on which sequine wife, give your envises it the crite (6 made)

hir Alamai had 2 bega of maibles. One of the beg contained 8 red maibles and 5 blue sandles. The often hag contained 2 red machine and 6 yellow marking. What fraction of the total earlies from both hage years and marking?

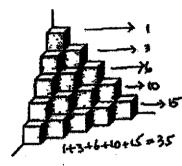
$$\frac{\text{Red}}{\text{total}} = \frac{6+2}{(+3+2+4)} = \frac{8}{(5)}$$
(ans)

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

There are 6 shaded squares in the Space. Since 6 more equives to focus a symmetric figure with XX' as the line of symmetry.



18 The sold below is study up of 5-cm colors. What is the volume of the sold?



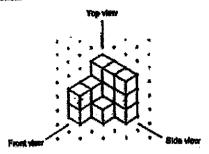
<u>~\_\_35\_\_\_</u>

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

24

Parentader stacked 14 toll eshee and gloud them together in them the solid below.



Departure adde years of the solid on the gifd ballow.

-		Side Yew	
•			
*	•	· *  -1 · *	
•	#	r + f ( • •	
	*	<del>                                      </del>	
٠	+	<b></b>	
•	٠		

22 Million paid \$78.50 for a pair of shoos and \$18.50 for a lovel.

(4) Here much did his spend altograther? Round the animar to the inspend delies.

\$78.59+\$19.40 =\$98.49 &\$98(~6)

ANK (N) L 98

(b) Find the cost of 30 such bonds.

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

MAR DI 1 597

23	the mark break	Give your admits	s day comp atpoint 1 h. 45 miletaries es all \$1.20 a.ms. What thee did in in 24 hear shock.
	1445	<del></del>	
	9453-	L. 90	taspa.
			(ms)

18 os

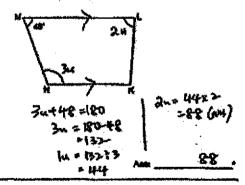
36 In: 2021, Mitgglic numerically of him morthly animy of \$3000 such months. In 2022, Mitgglic received an increase in her wordtly askey and the yearst \$100 ment per month. What were \$40 percentage formans in Mitggliff (Northly enrings?)

30 *

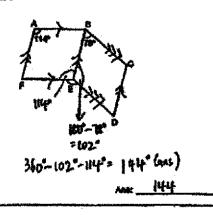
### There were 1996 big hums and 7962 entell incred a factory. The burn were packed blo bugs. Such bug devialed. I big him and d entel beam. What wer the greatest meabur of large flat could be packed?

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

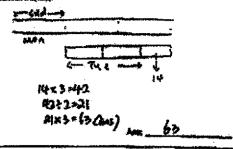
21 May - 40° and 21 MK to \$ thousand 21 MK. Find 21 MK.



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



20 Mile Chan solls of the applies on Monday. She sold of the remaining applies on Theodory. Mrs. Chan had 34 applies that select select papers on blanday and Tuesday. How many applies the day. Chan have nating?



They had a sell of doors with a total inneght of 1 m.—She out off  $\frac{1}{8}$  m of the dibbon. The minutelies hength of the dibbon was cut late shorter plants of larges  $\frac{1}{8}$  m each. At most, have many places of  $\frac{1}{8}$  m boys dibbon dill filely type in the each?

50 From Making was as hij of signer each statelly. Poss Sintraly code 20 Signature stoper from Servet Stateny each statelity. If or = 100, later strong Silograms of suger de Pass Salary and Street Ballery use is latel for draining.

Ares	2040	Ŋ
Action	MOTH	Ŋ

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NANYANG PRIMARY SCHOOL

#### PRELIMINARY EXAMINATION 2022

#### PRIMARY 6

#### MATHEMATICS PAPER 2

Duration: 1 hour 30 minotes

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<b>INSTRUCTIONS</b>	163		м
STANDARD TO STAND			

- 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 ensurers in this booket.
  5. The use of an approved calculator is allowed.

Name(	,	
Class: Primary 8 ( )		
Perente Signature:	Booldel A	/ 20
	Booldet B	Ĵ <b>25</b>
	Paper 2	/ 85
	Total	/ 100

Please sign and return the agazzination paper the to calend at the same time when returning paper.

ith natural income security in April. She seeme \$2,00 per day the 30 m. She then agreed \$3,10 per day for the mait of the receille. Veloci I the security executed of receivy she second per day in April ? (These are 50 days in April.)

•		2	70
Ance	4	,	- 474

Done bought un even flore Shop A et 18% decount desting a suis.

price of the even was \$500 below discussif at Shop A. Halley but
ap Medigal oven flore Stop B at 20% discoppi and paid the se
amount as Dens. What year the price of the overs before discount
Shop 87

4 to 6 camp 2 similes such. Show your workings chesity and visite so in the spaces provided. For quasiness which require units, give to its to units stated.

The original price of a book was Sit. David bought 15 such bushs. After he was glass a discount of 910, he poid a total of \$1.00. What was the original price of one such book?

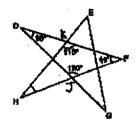
he charges for rariling a blaycla.

	Desgr	These	Charge
2.7	33 B-6	7 em to 6 p.m.	94 per tour
	Man to Pal		go per hour
	Suit und Sun	Yam beam.	\$12 per legter

On Palay, he was exclud a bispuls and minimal it at 4 p.m. He pr local of \$20. For how many force dis he test the bispuls?

<b>.</b>	5	
ARF:		Ħ

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



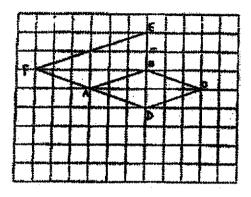
Ans	<u> 22</u>	
	· ·	

Per question 9 in 17, show your worsing closely and wide your assesses in the specialist. The parable of marks and letter in shown in brachels [ ] will fine and of with specialists or part-quantities.

(15 marks)

- to the express grid below, All and BO and already these.
  - 13: AS and BC form two sides of a mountain ASCO: Commiss des distribuy of the reservoir ASCO.
  - (b) AB all of from one able of a tropic lime ABSP. Abbuseously to by.
    The length of BF to below the bright of AB. DAF from a studyle
    than and AD w.AF. Complete the drawing of tropic lime ABSP such
    that below potentially with the distance.

    22



Since had a self of higher paper sent a real of each paper. The langific of the seal of such paper is a fine langific of the real of each paper. The each paper and of hims paper into equal pasts of langific 12 cm and on doub past sine diver 2 size always. After their, after set the self of each paper has equal parts of lineight 7 cm and on each past size either 5 briefs disapped. What transfers of the simple files draw were after chapter?

Policy bed \$15.20 form then John all Ind. After Joint gave some of her shortly to Pides, he had \$26.20 more lines has. How much somey dis area give to Peter?

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 forms wan 9 from the employ first true B softepted. Howevery plantforbullia cell town E collect?

\*

240 M
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58 bit Yoh Int Town B and drove to Yours C at 11 s.m. at a constant speed of 60 banks. Mr Lee Int Town A at 12 speed and drove to Town C at a constant speed of 60 leafs. Town A and Town & ware 15 ten speed. After travelling from Town A to Yours B, for Lee then townfled to Town C along the serve route as bit Toh. At what time did filt Lee calcts up with the Toh?

<u>\_\_\_\_\_</u>

When the Lee left Town A at 12 moon.

Mr Ish would be a distance away

of:-

15 km + (Specker X Timeron )

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

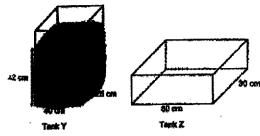
= 15km + 60km

= 75 km

Difference in their speed
80 in 1 h - 60 in 1 h
= 20 in 1 h

Time need for Mr Lee to auth up: 75lon & 20 lon /h = 32h 32h after 12 nom 18 845 p.m. 18 3.45 p.m. 18

11 Tank Y and Tank Z are two reclamption tanks. At first, Tank Y contained seems water to a height of 42 can and Trest Z was empty.



tal What som the volume of the water in Tank Y et first?

40×25×42: 42 000

Ane (+) 42000 m3 17

(b) Kurdhua posed come upon toos Took Y lefo Tank Z. After that, Tank Y had  $\frac{2}{5}$  as souch seven as Tunk Z. Find the height of the context and in Yank Z.

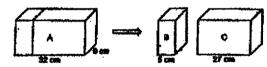
Tok Y: Took 2: Total 2: 5:7

M - 42 000 W - 42000 17 = 6000

Test 2 + 54 : 5x 6000

Houth 2 Value 1 Base Her. 20000 1 (80 1025)

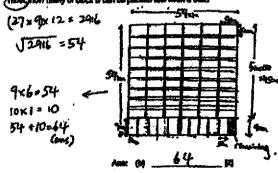
12. A verlangular lifect: A vasa cut signey the detired line into two sension sectiongular blacks of squal height, th part Q, an above ballow. "The verture of block to was 4762 and has that shet of block C.



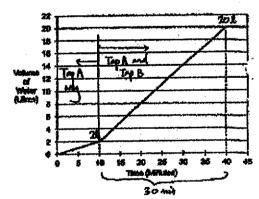
(a) What was the height of each block?

Ane (4) 34 cm (7)

(c) Inhelitime pretent 12 of block (7 mich that they IR county into a box
wife a require base. The box faul the sense height on brock ().
(They have many of block B can be packed between a box?



3 Etus siled a test with water tuking host tops, Tap A and Top St. Ske tunnel on Tap A first. After 10 minutes, she tunnel on Tap B. Softings was tunnel off of the secur time tribut the tunk was completely tited. The graph better stops the amount of water in the tribut over 45 minutes.



in what one the capacity of the total?

Tack filled flow Acts mands.

Ann (a) 202 [1]

Top B my in 30 min - 18L-6L = 12L

Top B - 12L = 10 min

Top B my in 30 min - 18L-6L = 12L

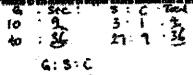
Top B my in 30 min - 18L-6L = 12L

Top B my in 30 min - 18L-6L = 12L

nd nome gold, some after sind nome capper folians for The selfs of the purpher of gold tokens to the toket member apper betwee som the c. The sale of the number of ally the sumber of capper bitters were it : 4. The suchenges is to for a stalled key and opper allow tokens for it for of medical , the college function of gold interiors was successful to the college of the compact of allow to

e de calo el filo acadar al gald talans 1910 la filo gamber al esper falsas libra SCC

Colore



After

succe no change for capper.

36: 9

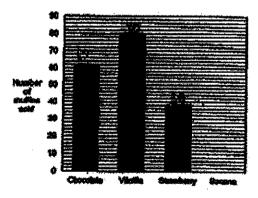
6: S:C 36: 12: 9

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44 -> 12 43

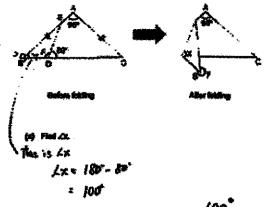
45

10 A shop sales four appear of modern. The barr graphs shows the compact of each type of middle sold by the sticp. The terr for the manner of became modime soils had not been drawn. The member of became market with tran a the resolver of vacilla availage 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 thin falsed along the fine DB



100

(I) Flod 4:

= 42.5°

317.5

Ans: (b) ...

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

Type of section	Price per resilia
Chosenia	- SB.26
Variet	<b>50</b> ,70
Streetper	
Danana	140

one that selece of which type of modile did the whop collect the anough any? What was the amount of money?

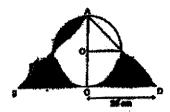
Charlet -> 62x \$0.25 - 352.70 Verille -> 80 x \$0.700 \$56 Shanburg -> 38x41.35. \$51.30 Bun -> 47×\$1.20 = \$57.60

> AND DI MANN BEYERS Amust 457 50 ps

to judicate Acts among

	#Milesonia	True	Faine	Not pendida to tell
I shalon Mar All. It is at John. In 3.	The monther of characters and the cold	>		
	The case of the stanber of stepsberry scaling sold to the reactor of standardy multime tell month was 3 : 2.		~	
	The shap sold 46 bours of \$ welfing.		<b>V</b>	

46x5 9 230 Bif that maddle said more 634 to 438448 or 328 17 The figure below in made up of a wondrick, 2 Hartford quarter shoten and 2 stantion dipheropted incoming triangues, ACB and ACD, CA = CB = CD. Obstruction of the deta. ACC and BCD are straight from. Plad the latel area of the standard parts. (Talso n = 3.14)



Area of South Code  $\Rightarrow 4 \times \frac{3.44}{3.4} \times \frac{14}{3.4} \times \frac{153.86}{3.4}$ Area of small temple  $\Rightarrow 4 \times \frac{14}{3.4} \times \frac{14}{3.4} \times \frac{18}{3.4}$ Area of buff land  $\Rightarrow 153.86 - 99 \times \frac{35.86}{3.4} \times \frac{29}{3.88} \times \frac{39.2}{39.2}$ 153.86 + 98 = 251.86

392 = 251.86 = 140.14

140.14 \times 2 = 280.28

Area of shadd parts  $\Rightarrow 280.28 + 55.86$ Area of shadd parts  $\Rightarrow 280.28 + 55.86$ Area of shadd parts  $\Rightarrow 336.14$ 

**Part of Pages** 

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