

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)

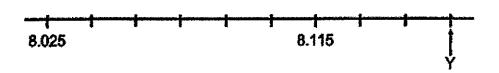
1	Kouna	748 850	to the	nearest	nungred.

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

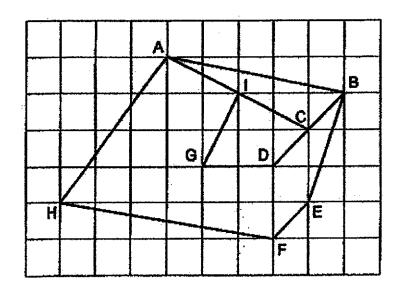
2 10 hundredths and 75 thousandths is _____

- (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?

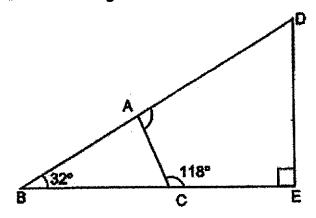


- (1) 8.130
- (2) 8.145
- (3) 8.160
- (4) 8.175
- 4 Which pair of lines in the square grid are parallel?



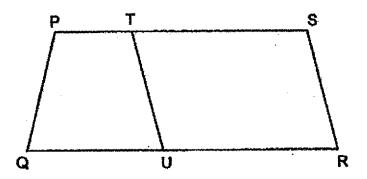
- (1) AH and BE
- (2) Gl and AC
- (3) AB and HF
- (4) BD and EF

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



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

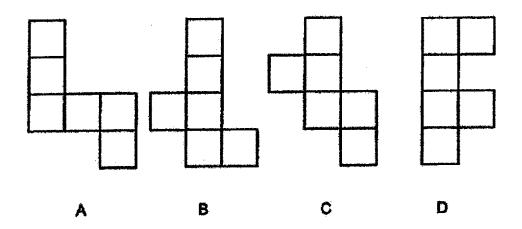
6 PQRS is a trapezium and RSTU is a parallelogram.



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

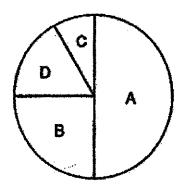
- (1) ∠QPT and ∠PTU
- (2) ∠TSR and ∠UTS
- (3) ∠TUR and ∠TSR
- (4) ∠PQU and ∠URS

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

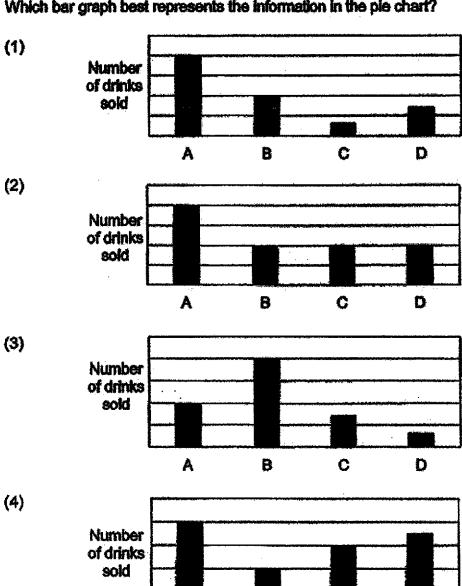


- (1) A and B
- (2) A and C
- (3) B and C
- (4) C and D
- 8 Huiling had \$z. Ravi had twice as much money as Huiling. Jas had \$5 more than Ravi. If Jas had \$10, how much money did Huiling have?
 - (1) \$30
 - (2) \$7.50
 - (3) \$3
 - (4) \$2.50

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



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



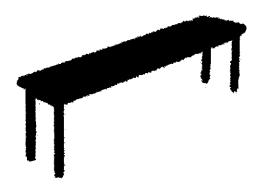
B

C

D

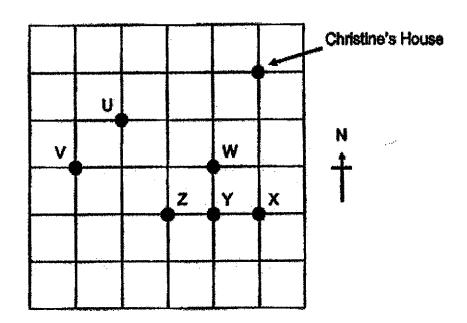
A

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) $\frac{9}{10}$

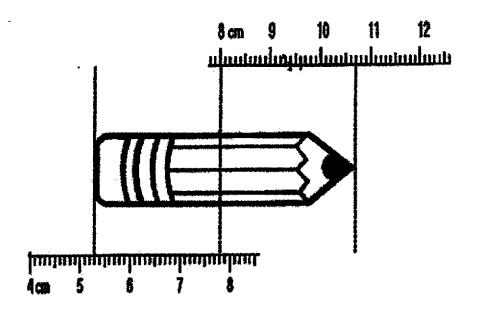
The square grid shows the positions of the buildings U, V, W, X, Y and Z.



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 necklace. 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.

4, 16 , 8 , 32 , 16 , 64 , 32 ,...

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 ()	·	

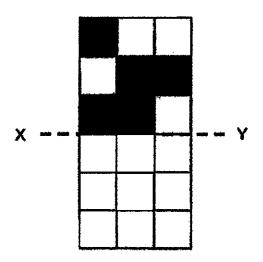
Booklet B

125

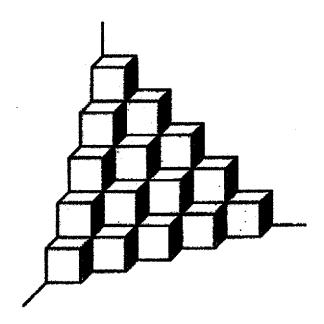
Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)				
16	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:			
17	Find the value of 3.707 t + 1.373 t 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.

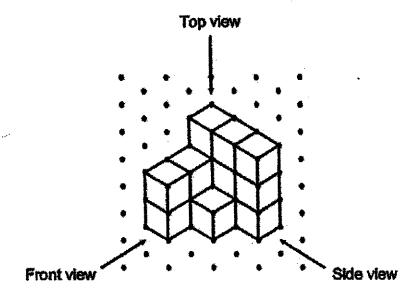


19 The solid below is made up of 1-cm cubes. What is the volume of the solid?



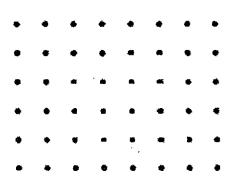
Ans:	cm ³
2.29 M32	 ALC: 1

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.





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 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: \$			

2	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:				

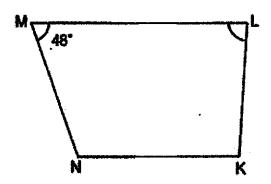
26 Mrs Chen sold $\frac{1}{3}$ of her apples on Monday. She sold $\frac{2}{3}$ of the remaining apples on Tuesday. Mrs Chen had 14 apples left after selling apples on Monday and Tuesday. How many apples did Mrs Chen have at first?

Ans:

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?

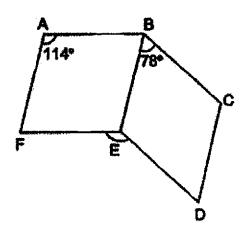
Ans:

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: _____°

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



Ans:

0	Pam Bakery uses m kg of sugar each month. more sugar than Sweet Bakery each month. kilograms of sugar do Pam Bakery and Sweet B year?	If $m = 100$, how many	
-1 '			
teatro 1			
<i>₹</i> .	Áns: _	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 suc	:h 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
	Man to Ed	7 a.m. to 5 p.m.	\$4 per hour
	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:	,	h
------	---	---

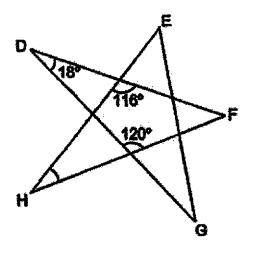
3	Ji Min saved some money in April. She saved \$2.50 per day for 20
	days. She then saved \$3.10 per day for the rest of the month. What was the average amount of money she saved per day in April? (There
	are 30 days in April.)

Ans: \$_____

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: \$_____

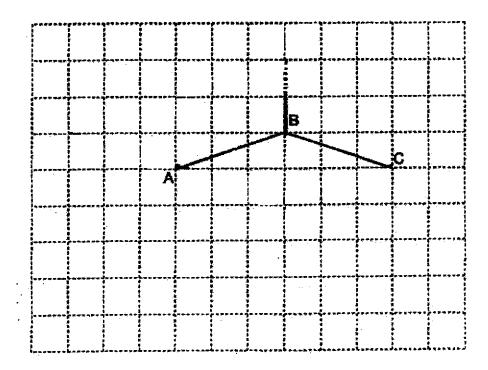
5 The figure is formed by 5 straight lines DF, EH, EG, FH and DG. Find ∠EHF.



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 first. After Jane gave some of her money to Peter, he had \$29.20 more than her. How much money did Jane give to Peter?
	·**
, e diskinger	
. 4	
-	
	Ans:[3]

8	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]
------	-----

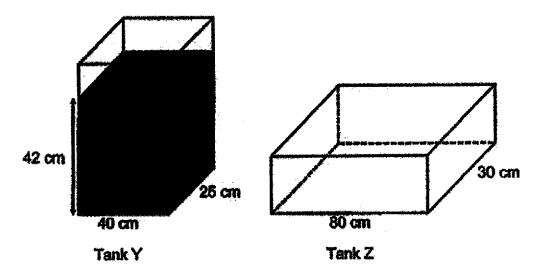
Four towns A, B, C and D collected plastic bottles to be recycled. Town A and B collected an average of 324 plastic bottles. Town B, C and D collected an average of 344 plastic bottles. The total number of plastic bottles collected by all 4 towns was 6 times the number that town B collected. How many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

Ans:	[3]
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?



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.



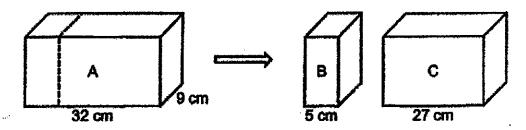
(a) What was the volume of the water in Tank Y at first?

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

(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	Ans:	[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 cm³ less than that of block C.



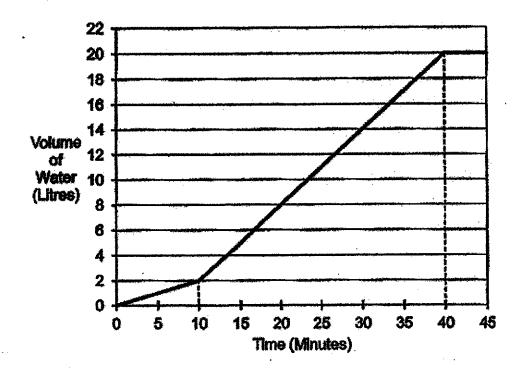
(a) What was the height of each block?

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

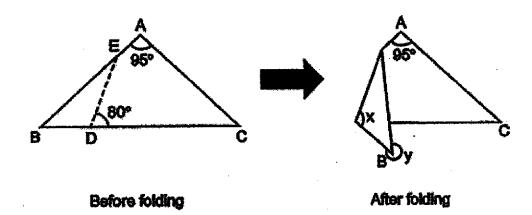
(b) How many litres of water flowed from Tap B per minute?

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

- 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	. •	silver	tokens	did	Mariar	n ez	cchange d	for	the	jar	of

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.



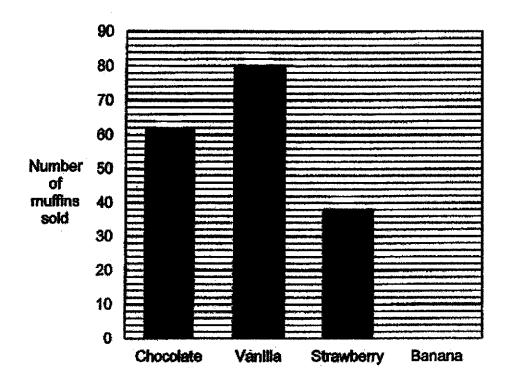
(a) Find ∠x.

Ans:	/a\			[2]
ANS:	(a)	and the second s	 	14

(b) Find ∠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 mulfin did the shop collect the most money? What was the amount of money?

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

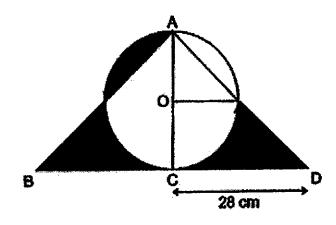
(c) Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (<) to indicate your answer.

True	False	Not possible to tell
	True	True False

[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 x = 3.14)



Ans: ______[5]



PRELIMINARY EXAMINATION 2022

PRIMARY 6

MATHEMATICS PAPER 1 (BOOKLETA)

Total Duration for Booklets A and 6: 1 hour

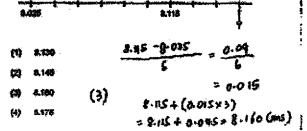
Additional materials: Optical Asperer Sheet (OAS)

۰	and the second second		
	151111	ICTIONS TO	

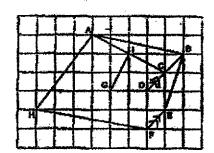
- 1. Do not have over this page until you are told to do so.
 2. Pollow all featrochors carefully.
 3. Americal all questions.
 4. Shade your assessors in the Optical Americ Sheet (OAS) provided.
 5. The use of calculators is MCT, allowed.

Name!	 	***************************************	}
Charles Dilleren	•		

the third enumber that declars, what is the value of Y are indicated by the



White pur of these in the square god one parallel?

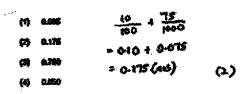


- (I) Altend BE
- BD and EF
- (4)

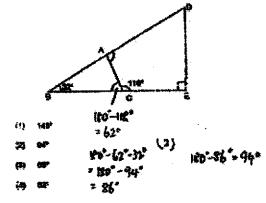
m 1 to 10 carry 1 mark each. Counting 11 to 10 carry 2 marks o quantes, fixt options are glave. Con-of them to the conscious or choice (1, 5, 3 or 4) and stadio your attendrom the Cythell Ag

STATES FOR MEN THE STATES CONTROL

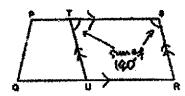
të handadhe enë 75 theoremiliat it.



act and DAS we straight from . Find 20AC.



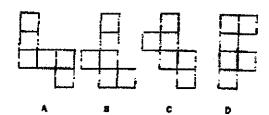
PARS to a passenture and RSTU to a partitionism.



YELKA of the billouing pair of angles gives a sum of 1807?

- DAT and LPTU
- ∠TSR and ∠UTS
- ATURNME ATTER
- (2)
- APOU and AUTO

Yellob two of the following are note of a colou?



- (f) A and B
- (2) A and C
- (3) Bland C
- (3)
- (6) Ched D

If Milling had \$\psi\$. First had buten an much money on Hulling. June had \$\psi\$ money than \$\text{Ann}\$. If June had \$\psi(0)\$, how much money that hading \$\text{hang}\$ is an \$\psi(0)\$.

22.5

10 Which of the following is thely to be the length of a brench in the action content?

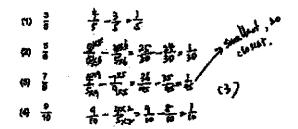


- ili 1.5 cm
- 621 16 etc

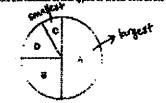
(3)

- (3) 1.8 m
- (4) 18 m

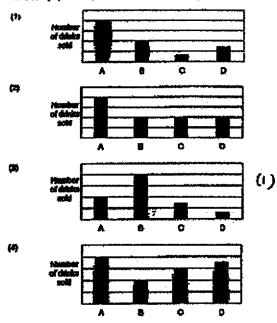
11 Which of the following Desilons is closest to 2



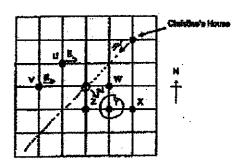
The pie chart above the number of four types of civits sold in the action content.



Which has graph best proviously the information in the pie chart?



12 The agents get shows the preficus of the belieftigs U, V, W, X, Y and z.



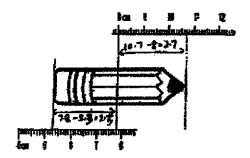
Chalation electric at a location would-must of bot house and desir of a haliting. When finding wealth-must from Chalating's location, otherwise leading. What is that building?

- (1) Building W
- M Andrian X
- (S) Building Y

(3)

(4) Building Z

13 What is the length of the panel allows below?



2547=52

2 days



PRELIMINARY EXAMINATION 2022

PRIMARY 8

WATHEMATICS PAPER 1 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPLS

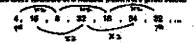
- 1. So not turn over this page unit you are told to do so.
 2. Follow all instructions cornitally.
 3. Answer all questions.
 4. With your ensures in this booklet.
 5. This tase of calculations is MOT allowed.

Name:)
Class: Primary 6 ()	

Booklet II	125

Please sign and return the experimation paper the read day. Any quaries should be missed at the same time when returning paper.

14 Viv. Wordy and Kityl ench bed some beach. They each used the stems number of beats to make a problem. We used 🕯 of her bundle. Wendy used $\frac{T}{H}$ of her bends and Xinji used $\frac{3}{X}$ of her beads. What men who calls of the cumber of basels VIV had at that to the exampler of counts triangly had at first to the comber of beads Anyi had at first?



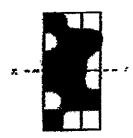
no 16 to 26 carry 1 mark each. Ville your assure in the apaces provided. For questions which sequire units, give your envisors in the critic

hir Alement land 2 begun of markins. Our of the big conteined 2 red mention and 3 bins marking. The other bag contribut 2 red markins and 6 yellow markins. What fraction of the total markins from both bagin many and sambles?

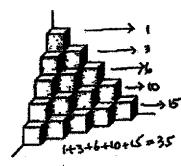
$$\frac{\text{Red}}{\text{fotal}} = \frac{6+2}{(+3+2+4)} = \frac{8}{(5)}$$

Find the water of 3,767 (+ 1,373 (Express the answer in Mres and milities.

There are 6 shaded squares in the Square. Shade 6 share squares to focial a symmetric figure with XY as the fire of symmetry.



18 The solid below to steeds up of 1-cm cobust. What is the volume of the solid?



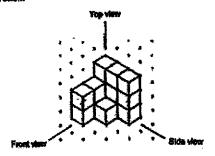
Ami	35	ent ^a
-		A- 1.0

Quantition \$\hat{1}\$ to \$0 carry \$ maria and \$. Show your easility clearly and wells your easilities by the spaces provided. For quarfers with require with, give your ensures in the wells which.

23 A limity halfs light had he sold light Ameling every 2 records, the entired light infinites during 2 accords and the grains light beliefully every 2 accords. Full thehe lights hilled some, how many abcords helicraff they all blick fourther earlie?

	24	
APIE		į

20 Parentader stacked \$4 will existe and gived them together in them the solid below.



Occur the elde stew of the solid on the gifd below.

-		Side Year		
				•
*	•	• • 🖂	٠	
•	#	11	٠	•
	*	HHHH		•
٠	+		*	•
٠	•			•

- 22 Air Lieu page \$78.50 for a pair of shoot and \$19.50 for a limes.
 - (c) Herr much did he spend altogether? Round the anatom to the morest delire.

ANK # 198

(b) Find the anial of 50 such learning.

\$19.90×30 = \$19.90×3×10 = 4.59.70×10 = \$59.7 (95)

	84	. 517
-		

23	the mark bring.	Brack bear w	e day comp steded 1 h 45 mb/haism pe sij \$1,20 a.m Vitnet time did the rin 34 hour abods
	+,	\$ 30-2	
	1445	in ,	
	940	1-90am.	taspa.

		-	
E	1	0,5	1
	(m	"	

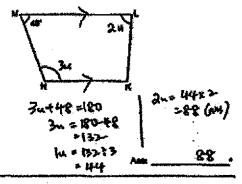
34 In 2021, Maggie nemet 20% of his morning animy of \$5000 such intents. In 2022, Maggie received an increase in her wordly adapt and the sured \$100 mass per month. What were \$40 personings increase in Maggie's country antique?

Atte	30,
	1

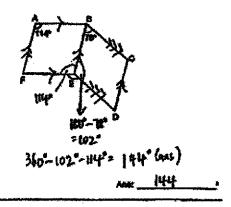
There were 1996 big huma and 7002 annel force in a factory. The huma warm packed hip bage. Unch has certained 1 big hum and if annel bases. What was the ground parabat?

26 In the Operations, VLANT is a trapertons and LALTe propint to VOL.

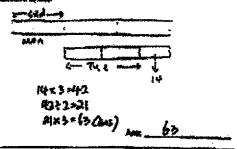
2564-45° and 268K to \$ times of 268K. Find 258K.



28 ABEP and BOOR use parallelograms. ∠PAB = 114° and ∠RBC = 75°. Plot ∠DEF.



20 Size Chan solls \$ of four applies on Monday. She sold \$ of the numbridge applies on Tuesday. Size Chan had 34 applies tell edge selling applies on blanday and Tuesday. How many applies all him. Chan have at fact.



27 Many find a self-of distance with a total integrit of it is. She cut off $\frac{1}{8}$ at of the distant. The minimizer length of the distance was cut halo should place at length $\frac{1}{8}$ in each. At most, how many places of $\frac{1}{8}$ to large distance of likely three in the each

50 Point Making was as bij of super circle statells. Pass Sinting water 30 fig. states sugar flow Serect Stateny each statells. If or = 100, later strong Silegamus of sugar 60 Point Salary and Street Salary use in table for decision.

ANE 2040	¥,
----------	----

Emiled Paper



PRELIMINARY EXAMINATION 2022

PRIMARY 6

MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

INSTRUCTIONS	

1.	Do not lum over thi	o page unit you ere told to do so
- 7-	CARREST AND MA	A Mark Andreas Brown St. Contract Co.

2. Follow all instructions carefully.

3. Answer all questions.
4. Write your answers in this booket.
5. The use of an approved calculator is allowed.

Name:{{)	
Class: Primary 8 ()		
Perent's Signature:	Booldel A	/20
	Booldet 8	Ĵ25
	Paper 2	/ 95
	Total	/ 100

Please alon and retorn the exemination paper the next day. Any quales should be relead at the same time when returning paper.

If his named some sensey in April. She worst \$2,00 per day for 30 days. She then eased \$3,10 per day for the self of the receils. What was the secape second of warrey she secape per day in April? (These are 50 days in April.)

Anc	Ł	2.	70

Darm bought un oven from Shop A et 18% decount desting a cele. The price of the oven was \$500 before discussed at Shop A. Halley bought an Meetings oven from Shop II at 20% discussed and getti the sense amount as Darm. What was the price of the oven before discussed at

After a discount of 20%,
Haby paid 20% for \$100
Bise of ship 8-> \$50 \$150

ARE \$ 50

Constitute 4 to 5 early 2 nimits such. Show your working churity and wisto your encours in the specus provided. For quasilons which require units, give power interest in the units stated.

(10 minist)

The original price of a book was Sk. David bought 15 such bunks. Abortowns ghan a discount of \$10, he pold a total of \$1.30. What was the original price of one such book?

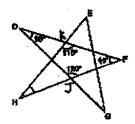
Am: 1 8

The table below shows the charges for renting a bioyola.

	Days	These	Charge
27	Show to Pari	7 and to 6 p.m.	94 per tour
		Som to Para	go ber your
	Seef word Store	Yam beam.	\$12 per legiur

On Pighty, his 'the numbed as bispecte and national it all if place. He paid as lotel \$26. For how among boson 455 his part the bioyete?

The figure is formed by 5 straight lines DF, EH, EG, AH and DQ. First JEFF.



h A DFJ. LDFH = 180'- 120'-18' · 42'

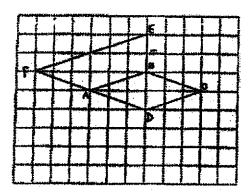
L Δ KFH, LEHF: 18"-116"-+2" z 22° ··

22

Per question 6 in 15, about your worsing clearly and wife your assumes in 50 species provided. The product of mades are listed in about the brackets [] of the and of each spinishes or part-question.

- to the equate grid below, All and BO are simple these.
 - ta: A6 and 80 farm two sides of a mountain ASCO Complete An desirable of the mountain ASCO.
 - the AB allie from one other of examples in ABST. Although the by.

 The length of BF is balled the length of Alt. LAF fatou is straight
 than and AD w.AF. Complete the drawing of expection ABSF each
 that Edway potential with the drawing.



6 Note had a self of the apper sept a self of each paper. The langue of the self of each paper. The says the sength of the self of each paper. The says the self of each paper into equal pasts of languit 12 cm and on doub past one dread 2 star shapes. After that, sine eat the self of each paper has equal pasts of thigh? I am and on each past storedness 5 hints dhapes. What traction of the starpes files dream were star chapes?

Blue: Red

$$1:2$$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$
 $1:2$

Protection \$15,207 tests there does not thele. After Jame gave seems of two secony to Pulse, the total \$28,20 seems them here. How much scorely did seem given to Pulse?

Name:	\$23.70 B	
-------	-----------	--

Four tower A, R, C and S collected placifolisation in to recycled. Yours A and S collected an emerge of SN4 placifolistics. Then S, C and O collected an eventure of SN4 placifolistics. The lotel number of placifolistics collected by all 4 beaus was 8 times the margin faul town S and the state of the sta

240

18 Mir Yoh Int Town B and drove to Kines C at 11 a.m. gt a constant speed of 60 km/s. Mr Lee Int Town A at 12 more and drove to Town C at a constant speed of 40 km/s. Town A and Town S were 15 ten speet. After travelling from Town A to Town B, Mr Lee thes travelled to Town C along the name route as bir Toh. At what these did file Lee calcin up with Mr Lee.

Town A Town B Town

When the Lee left Town A at 12 moon.

Mr The would be a distance arrang

of:-

15 km + (Specker x Timeron)

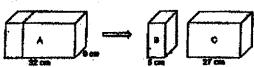
- = 15km + (60km/h x 1h)
- = 15km + 60EM
- : 75 km

Difference in their speed 80 in th- 60 in th = 20 ion th

Time need for Mrice to authors:
75 bn & 20 bm/h = 3\$h
3\$h after 12 nom 18 3.45 pm.

Ass: 3.45 pm. 10

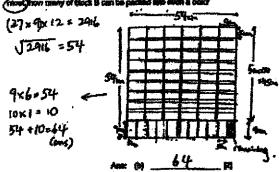
12. A yeolongular block A most cut along the dotted fine this time sensition sectiongular blocks of equal height, the prof C, as allower bottom. The walkurs of block is was 4742 and least that that of block C.



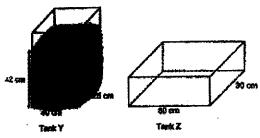
(a) What was the height if each block?

Ane (4) 34 cm 12

(ii) highline pastest 12 of block C such that they R exically lafe a box wife a square base. The box had the same height or block C. (*) incomprove many of block B can be packed into each a box?



11 Tarik Y and Tarik Z are two reclamption tanks. At first, Tank Y population's assessment to a height of 42 cm and Treit Z was empty.



(a) What some the volume of the venior in Tank Y at first?

40×25×42: 42 000

Ans 14 42000 cm 11

(b) Kanthus posed some unter tree Tack Y into Tack Z. After that, Tack Y had $\frac{2}{6}$ as exact varies as Tack Z. Find the fulfill of the

Took 7: Took 2: Took 2: Took 2: 5: 7

74 -> 42 000

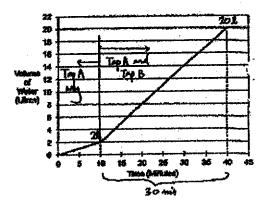
14 -> 42000 17

2 6000

Tak 2+ 54 : 5x 6000

Height 20000 1 (80 MES) 25 AME (1) 12.5 AME (1) 12.5 AME (1)

35 J. Shan tilled a tentr with water using hen tope, Tap A said Top St. She borned on Tap A find. After 10 minutes, she tenned on Tap B. Stoth tops were found off at the same flate which the tent was completely filled. The graph before shoom the amount of setter in the back over



(a) What can the capacity of the tent?

Tank follow from Acts, manufe .

Ane: (4) 202 |11

Top A and Top B > 18L is 30 min

Top B only in 30 min or 18L is 30 min

Top B only in 30 min or 18L - 6L = 12L

Top B only in 30 min or 18L - 6L = 64L

Top B only in 30 min or 18L only

Top B only in 30 min or 18L only

Top B only in 30 min or 18L only

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B only in 30 min or 18L of a 12L

Top B

- na some geld, some after soil nean capper lefts. The selfs of the surgice of gold televis to the teletre apper bloss ups 40 : 6. The cap of the number na 4 : I saddle rate of the Auritor of Mourto

40:27:9

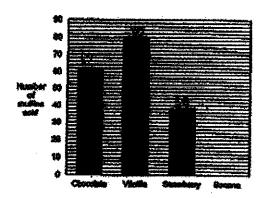
After

since no change for capper.

36: 12: 9

404-364=44

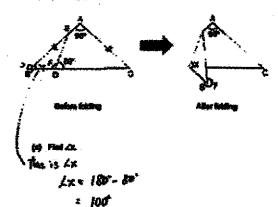
15 A shop sale four upper of mother. The bar graph shows the number of each type of middle sold by the sticp. The terr for the surplier of because errolling sold had not been drawn. The symber of beautin markles acid true - the resident of truelle avides sold.



(d) How many bandon multiply wave policy

48

ABC to a thingular pions of preparatio AB > AC. LOAC < 69. Acc. and BDO are shalpletime. The physicial field folded along the fire DE



100

(A) Flod 4:

ANK (H) 3/7.5"

(In this sales below phones the prices of the resulting.

Type of stellin		
Chysolatis 99.45 Variate 92.70 Strandowny 91.56	Type of section	Price per neaths
Simple Las	Choosing	
Simony 1.36	Verific	\$8.70
	Skendon	
Surace SLO	Sanana	\$1.20

From the sales of which type of moths did the whop volect the most enemy? What was the amount of money?

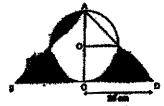
AND DE MARIN BENEAU Annual 452 60 PM

Each of the statements bolow in other inst, little or set pushing to left hom the holoments given. For such statement, puts sign (*) (c) Each of the st to Indicate year over

		True	Fains	Not peculida to tali
	The mindow of charolate multine cold week 02.	\		
38 shakery public self. 28 had diele	The case of the standar of stranforcy sculling sold to the reactor of stranforcy positive last amount was 3: 2.		~	
53 .	The shap sold 46 bours of 5 multing.		7	
46x	5 9 230			P

Bif that makes sall more 634 to 4384 to 228.

17 The figure below is made up of a weeklinds, 2 Martini quarker sholes and 2 Stantion dyth region inocurse Wangler, ACB and ACD, OA = CB = CD. Of a few repose of the clothe. ACR and BCD are straight fires. Flect the total grow of the standard parts. (Talso n = 3.14)



Area of South Gods $\rightarrow 4 \times 3.44 + 44 = 153.86$ Area of small transfer $4 \times 14 + 44 = 98$ Area of the land $\rightarrow 153.86 - 99: 55.86$ Area of by Tangle $\rightarrow 3 \times 24 \times 28 \times 392$ 153.86 + 98 = 351.86

392 = 251.86 = 140.14

140.14 \times 2 = 280.28

Area of should park $\rightarrow 230.28 + 55.86$ Area of should park $\rightarrow 230.28 + 55.86$ Area of should park $\rightarrow 230.28 + 55.86$

End of Paper

48