

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.

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5. The use of calculators is NOT allowed.

Name:_____(

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Class: Primary 6 (

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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)

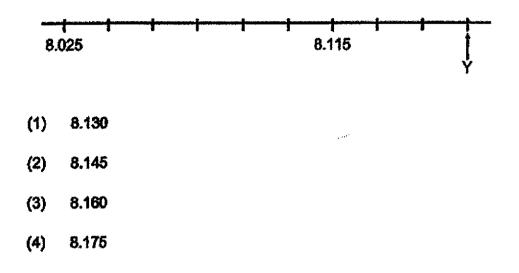
1 Round 748 850 to the nearest hundred.

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

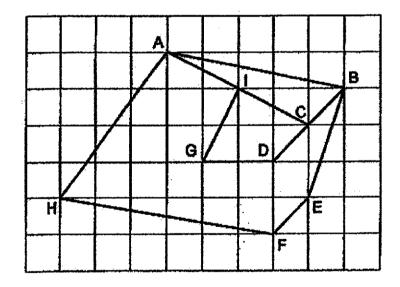
2 10 hundredths and 75 thousandths is _____

- (1) 0.085
- (2) 0.175
- (3) 0.760
- (4) 0.850

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

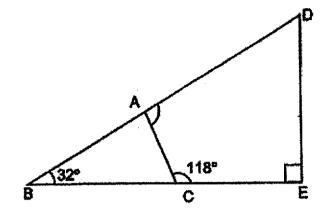


4 Which pair of lines in the square grid are parallel?



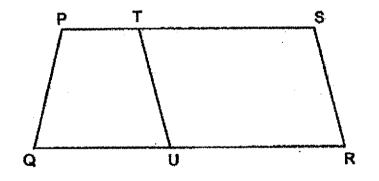
- (1) AH and BE
- (2) GI and AC
- (3) AB and HF
- (4) BD and EF

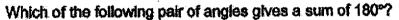
5



- (1) 148°
- (2) 94°
- (3) 86°
- (4) 62°
- 6

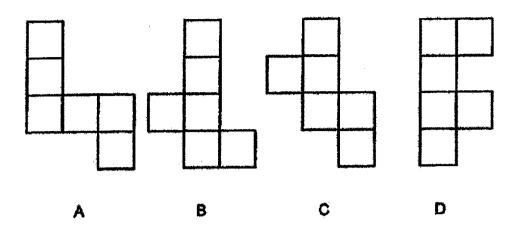
PQRS is a trapezium and RSTU is a parallelogram.





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

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

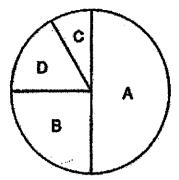
8

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?

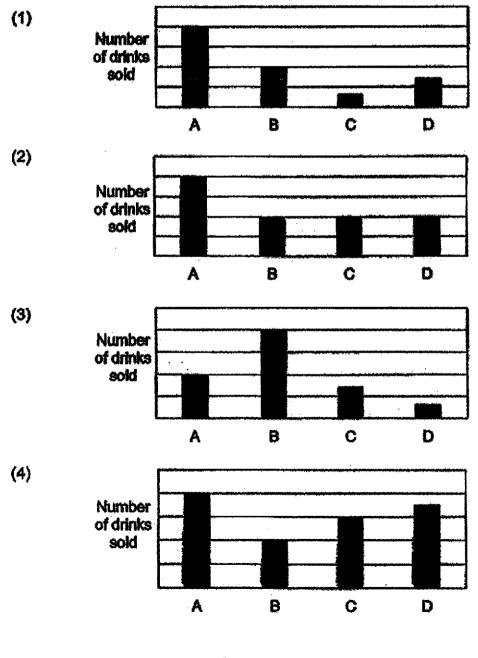
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- (1) \$30
- (2) \$7.50
- (3) \$3
- (4) \$2.50

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

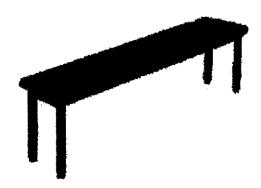


Which bar graph best represents the information in the pie chart?



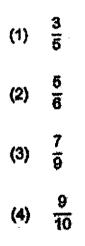
5

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



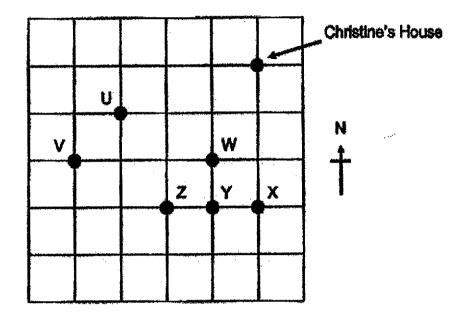
- (1) 1.8 cm
- (2) 18 cm
- (3) 1.8 m
- (4) 18 m

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



6

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

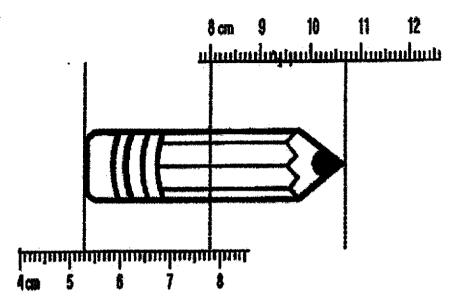


Christine stands at a location south-west of her house and east of a building. When facing south-east from Christine's location, she sees a building. What is that building?

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

7

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, ... 1st 7th

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

)

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

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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?

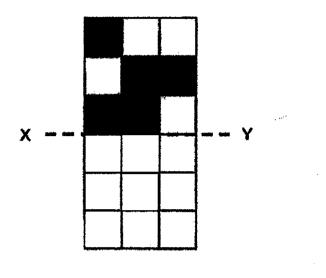
Ans:

17 Find the value of 3.707 L + 1.373 L Express the answer in litres and millilitres.

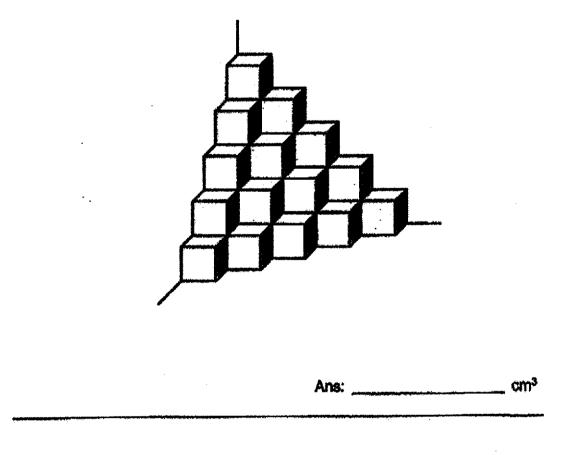
Ans: _____ t ____ mł

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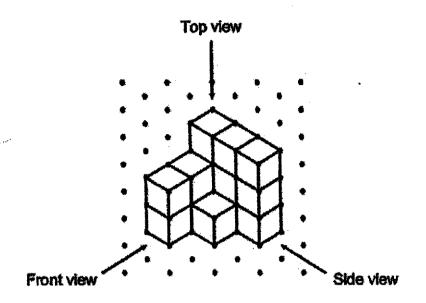
18 There are 5 shaded squares in the figure. Shade 5 more squares to form a symmetric figure with XY as the line of symmetry.



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



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

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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:

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- 22 Mr Liew paid \$78.59 for a pair of shoes and \$19.90 for a towel.
 - (a) How much did he spend allogether? 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:

28 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: _

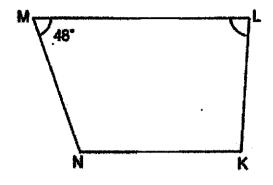
27 Mary had a roll of ribbon with a total length of 1 m. She cut off $\frac{1}{5}$ m of the ribbon. The remaining length of the ribbon was cut into shorter pieces of length $\frac{1}{8}$ m each. At most, how many pieces of $\frac{1}{8}$ m long ribbon did Mary have in the end?

35....

Ans: _____

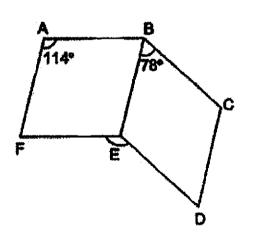
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28 In the figure below, KLMN is a trapezium and LM is parallel to KN. \angle LMN = 48° and \angle MNK is $\frac{3}{2}$ times of \angle MLK. Find \angle MLK.



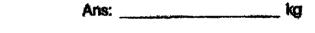
Ans: ______°

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



Ans: _____

30 Pam Bakery uses m kg of sugar each month. Pam Bakery uses 30 kg more sugar than Sweet Bakery each month. If m = 100, how many kilograms of sugar do Pam Bakery and Sweet Bakery use in total for one year?



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End of Paper

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NANYANG PRIMARY SCHOOL

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

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

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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: \$_____

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

	Days	Time	Charge	
	Mon to Fri	7 a.m. to 5 p.m.	\$4 per hour	
		5 p.m. to 9 p.m.	\$8 per hour	
	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

1

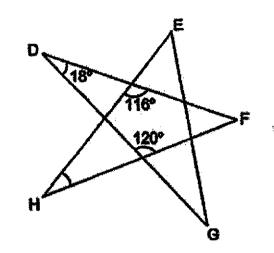
3 Ji Min saved some money in April. She saved \$2.50 per day for 20 days. She then saved \$3.10 per day for the rest of the month. What was the average amount of money she saved per day in April? (There are 30 days in April.)

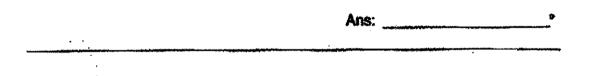
Ans: \$_____

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. 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: \$_____

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



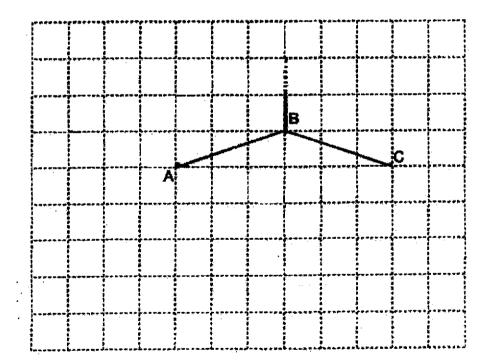


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25 r^{k} For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

- 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 elso 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]



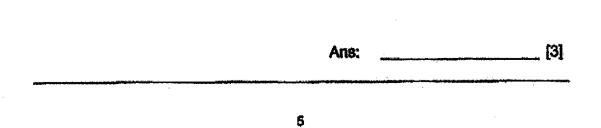
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7 Peter had \$18.20 less than Jane at first. After Jane gave some of her money to Peter, he had \$29.20 more than her. How much money did Jane give to Peter?

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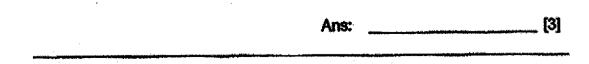
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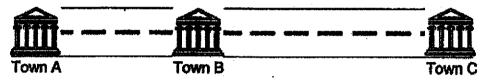
8 Kina had a roll of blue paper and a roll of red paper. The length of the roll of blue paper is $\frac{1}{2}$ the length of the roll of red paper. She cut the roll of blue paper into equal parts of length 9 cm and on each part she drew 3 star shapes. After that, she cut the roll of red paper into equal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

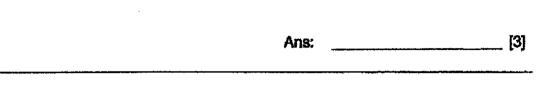
	Ans:	an a	[3]
. 6	· · • • • • • • • • • • • • • • • • • •		

9 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?

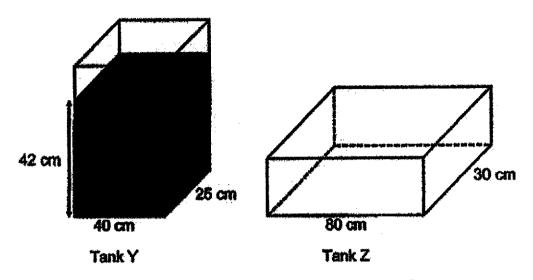


10 Mr Toh left Town B and drove to Town C at 11 a.m. at a constant speed of 60 km/h. Mr Lee left Town A at 12 noon and drove to Town C at a constant speed of 80 km/h. Town A and Town B were 15 km apart. After travelling from Town A to Town B, Mr Lee then travelled to Town C along the same route as Mr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

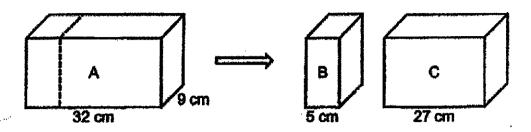
Ans: (a) _____ [1]

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(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)	and the second	[3]
9				

12 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.



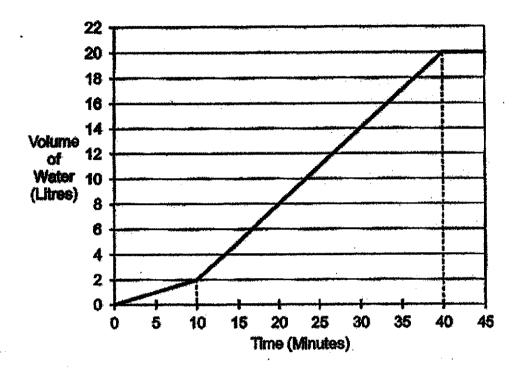
(a) What was the height of each block?

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?

[2] Ans: (b)

13 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?



11

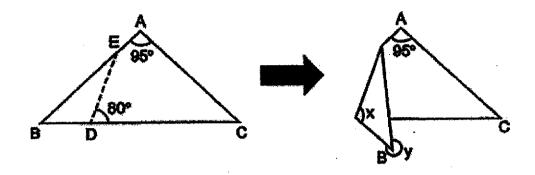
- 14 Mariam had some gold, some silver and some copper tokens for a carnival. The ratio of the number of gold tokens to the total number of silver and copper tokens was 10:9. The ratio of the number of silver tokens to the number of copper tokens was 3:1. She exchanged 12 gold tokens for a stuffed toy 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 to the number of silver 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 sliver tokens did Mariam exchanged for the jar of marbles?

[3] Ans: **(b)** 12

15 ABC is a triangular piece of paper with AB = AC. $\angle BAC = 95^{\circ}$. AEB and BDC are straight lines. The paper is then folded along the line DE as shown below.



Before folding

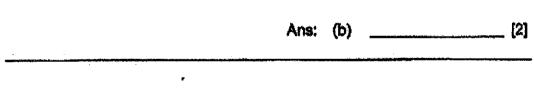


(a) Find ∠x.

Ans: (a) _____ [2]

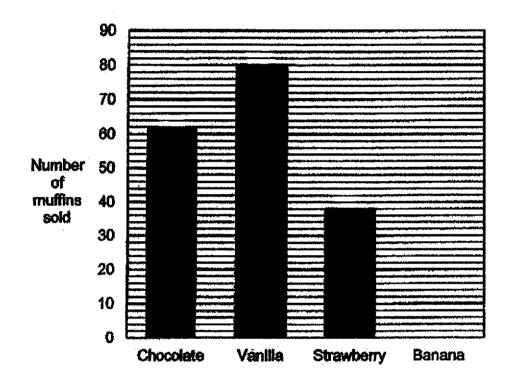
(b) Find $\angle y$.

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13

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?



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16

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

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

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

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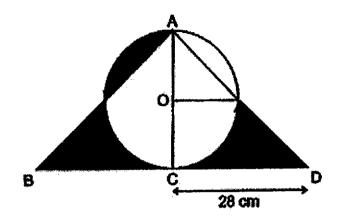
Amount: _____ [2]

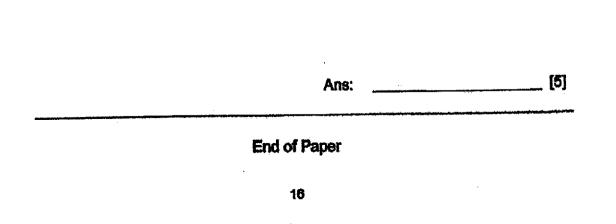
(c) Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

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.			
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15

17 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 $\pi = 3.14$)







PRELIMINARY EXAMINATION 2022

PRIMARY 6

MATHEMATICS PAPER 1

(BOOKLET A)

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Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Appyor Sheet (GAS)

INSTRUCTIONS TO PUPILS

- Do not term over this page until you are told to do so.
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 Answer all questions.
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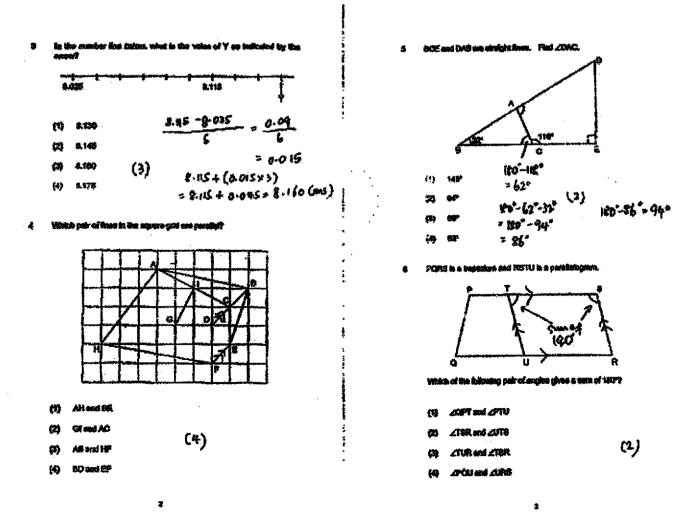
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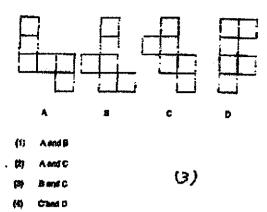
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(4)	0.175	- 010 + 0-015	
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(4)	0.450		~~/



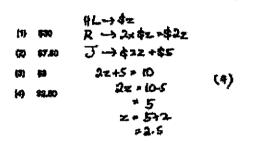
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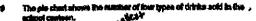


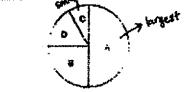
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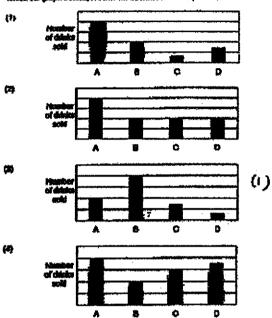


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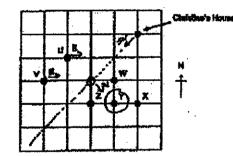


to the information in the pie chart? Which her propin i



re gets above the positions of the buildings U, V, W, X, Y and

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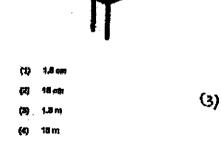


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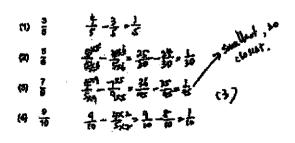


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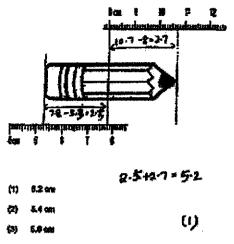
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Wish of the following descions is channel to 🚆 7 11



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(4) 10.7 on

14 Vie, Wendy and Kityl each bad some basels. They each associate the states a method some basels. We used $\frac{1}{3}$ of her basels. Windy used $\frac{7}{8}$ of her bands and kityl could $\frac{3}{3}$ of her basels. Wind we show the calls of the camber of basels Wind at first to the comber of basels. When a first to the comber of basels with the data is the to the some bar of basels with the some bar of basels with the some bar of basels. When a first to the comber of basels with the some bar of basels with the some bar of basels.

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15 The first 7 members of a mundeer pathern are place before.

Vihal is the 13th sumber?

65)	125	13th -3 add number.
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NANYANG PRIMARY SCHOOL PRELIMINARY EXAMINATION 2022 PRIMARY 8 MATHEMATICS PAPER 1 (BOOKLET B) Total Duration for Bookdets A and B: 1 hour INSTRUCTIONS TO PUPILS Do not turn over this page unit you are told to do so.
 Follow all instructions constally.
 Answer all questions.
 Write your ansatzs in this bookst.
 The use of calculators in <u>MOT</u> silowed.) Name: .¢ Cleas: Primary & () Becklet B 125 Please sign and return the examination paper the be mined at the annue fare when returning paper. nd day. Any quartee should r the s ġ

Constants 16 in 26 carry 1 mark each. Wills your enspore in (2n spaces provided. For questions which sequice units, give your environs is the cryle sinked. (§ marke)

18 Mr Alemani hand 2 binger of meddian. One of the bing contained 8 red mentions and 5 binse worklose. This offset bing contained 2 red machines and 4 yellow exactings. What function of this total meritian from both bagin more not machine?

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

<u>____</u>

17 Find the value of 3,767 (+ 1,373 (Express the answer in Mess and raifiliters

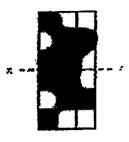
3-107+ (-573 = 5.080

1

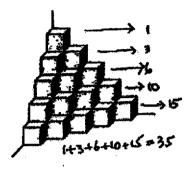
5-08 0 /= 52.80 ml (mx)

Anx 5 1 80 ml

18 There are 6 shaled secures in the Space. Since 6 more equipes to face a symmetric figure with XX' as the fire of symmetry.

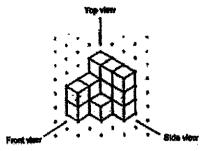


ié - The solid below is stade up of 5-cm colone. What is the volume of the solid?

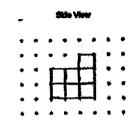


X

26 Parminder stacked \$4 test cubes and gland them together to them the solid below.



Occur the side year of the solid on the gift before.



the life Lines part \$76.50 for a pair of shows and \$10.50 for a level

(i) How much did he spend allogether? Round the manner to the morral define.

\$

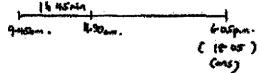
AME (M) 198

(b) Find the cost of 30 such toxists.

\$19.90×30=\$19.90×3×10 = 45970×10 = \$5971 (~~)

MR 0 1517

23 Aday comp lasted to 20 alls. The sky comp stacked 19.45 minimums the mark break. Struck basit was at \$1.30 a.m. What has sid the day comp end? One your admonth 24 hour clock.



.

18:05



23 A locally halfs fight had its out by and half binding every 2 seconds, its andber Sight billeting array 2 security and its general fight billeting every 2 seconds. Full three lights fights sore, how many seconds biller will itsey all billet together applie?

$$2 \longrightarrow 1, 4, 6, 8, 10 \dots 20, 22, 49
3 \longrightarrow 3, 6, 4, 12 \dots 19, 21, 49
 $g \longrightarrow r, 14, 49$
(m5)$$

¢

- 24

34 In 2022, Mapple named 20% of his monitory analysis \$3000 such mappin in 2022, Mapple Rocking on increase in her working unkny and the second \$100 means per march. What was the permittings increases in Mappin's marching anteger?

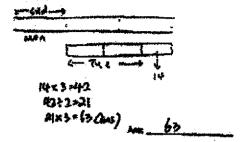
··· 30 ··

28. There were 1350 big have and 7002 seriel in an indext. The base were packed his bags. Useb has conjulned t big has and 6 easel base. What why the genuine product fings that could be acclude?

æ

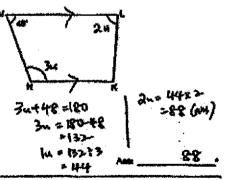
Anar 1330

20 Sits Chan solid $\frac{1}{2}$ of fact applies on Monday. She apid $\frac{3}{2}$ of the number of the second states with a spine but of the second states with a spine but the second states and seco

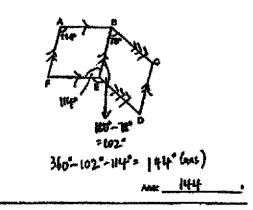


27 Vany had a sell of dobox with a total langth of 1 m. She cat off $\frac{3}{8}$ m of the dobox. The minimize langth of the dobox was call his shorter places of langth $\frac{1}{8}$ m each. All most, how every places of $\frac{1}{8}$ m langt altern difficulty langt in the sol?

In the Space Salary, HLSOI is a separation and LSI is purplet to 504. $\triangle Mid = 45^{\circ}$ and $\triangle Mid K = \frac{3}{2}$ lines of $\triangle Mid.$ And $\triangle Mid.$



25 ABEP and BOOR are parallelograms. ZPAB = 114' and ZEBC = 75'. Mod JDEP.



+

50 Press Making week as by of anger each statistic. Prov Datasy sees 20 kg: more unger from Datast Hadney each models. If as a 100, how some information of sugger do Prant Datasy and Brend Datasy use is that for data young

*

Ended Paper



PRELIMINARY EXAMINATION 2022

PRIMARY 6

MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

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

.f) Olaas: Primary S (> Parent's Signature: A Jubicod 🛚 خمارته Paper 2

	Total	/ 100	
ion and return the assessmention pag	er the next day. A	ny quadas shouit	į

Please sign and return the association paper are be related at the same time when returning paper.

annoid some sensey in April. She same \$2.60 pe She than sawed \$3.10 per day to be not of the re-10 ere 30 daers in AoriL)

> 20x 2.50 = 50 10 x 3.10 = 31 50+31 = 81 81-30= 270

> > me = 2.70

120 Í25

/ 85

Dana bought an anan Anno Bhap A at 12% dipostal dading a ga price of the oven was \$800 before discount at Sings A. - Fishe op Manifost oven Store Bhap B at \$0% discount and paid B anoust as Dera. What was the price of the overs before d Shop 87

2.

ach. Show your working classly and visits ad. For quasitions which require units, give W2: n in the m /10 m n in The Lin

The original price of a book was Sk. David bought 15 such books. Aborheves given a discount of \$10, he paid a total of \$1.10. What was the original price of one such book?

,

nika a biovala.

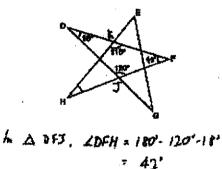
	Deve	The	Charge
2	jalaan ito Fisl	740.06pm	94 per bour 68 per hour
	Sut und Bun	7 \$ 8 p.m.	Still per legur

Che Péday, Mr Wo rested a blancie and niternel it et 4 part. He prist a joint of \$24. For how many house dit he serit he bioycle?

\$24-38=\$16 (\$8-+ 14 between Spin and Spin \$16 + \$4=4 (4 h befor 5 pm.) () 1++ =5

5

at by 5 straight lines DP, EH, BB, FH and DG. The figure is i Finit 2016.

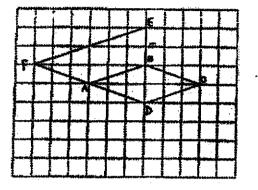


L Δ KFH, LEHF= 18"-116"-+2" = 22* ···

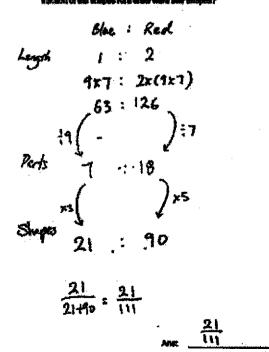
> 22 Å96

Per queithin 6 in 17, alour your waying closely and usine your assume to the syncare provided. The product of marks and alou in shouth b backade () of fan and al'oach quindlan or part-quantice. (45 marks)

- E In the equippe grid below, AB and BC are simple inse.
 - (A) AS and BC form two sides of a monotone ASCO: Consiste An detecting of the monotone ABCO. (N)
 - (iv A8 also focus are able of a superior A819. A8 is passing to br. The length of EF to balse the length of A8. CAF mass a simple the and A9 AF. Complete the density of hop than A819 with the Educe spinning with the distance. (H)



For has a set of the paper and a set of our paper. The hash of the soil of the paper is $\frac{1}{2}$ the length of the set of aid paper. The paper is $\frac{1}{2}$ the length of the set of aid paper. The set of soil of the paper is $\frac{1}{2}$ the length of the set of aid paper. The set of dever 3 size shapes. After this, size of the set of each paper hap equal parts of the phone. After this, size of the set of each paper hap equal parts of the stages files dear ware part size dever 3 highly. What hypothes file stages files dear ware star shapes?



Paint and Stitute tens than Jone to Will. After Junit gave mean of tenmoney to Pales, he tool \$26,20 more than her. How much money dis men give to Pales?

\$23.70

Four towns A, R, C and D collected platforbillion in to except at, Young A and B collected an average of SNA plants builton. Time B, C and D collected an average of SNA platforbillith. The bird teacher of platfortedian collected by all 4 doubt was 9 these the analysis for town B authority. How many platforbillits did team D collect?

.

= 2×324 = 649 A + B 8 + C + D = 3×3+4 = 1032 7 A + B + B + C + D = 64 + 1032 = 1680 da 🕈 A= 8 + 4 + D = 68 8+8+ C+0+8 " + B 68 7B 뻝 1680 = 1680 17 8 2 240 240 赵

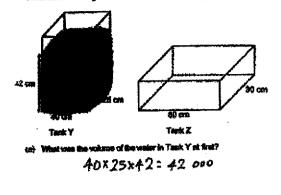
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24

Mr Yoh left Town B and drove to Town C at 11 s.m. of a curvelent spleed of 60 km/h. Mr Lee left Town A at 12 moon and drove to Town C at a constant speed of 40 km/h. Town A and Town B ware 15 km speet. Alter traveling from Town A to Town B, Mr Lee Dae Savelled to Town C storg Ten same route as bir Tok. At utent time did fill are called up with Mr Tok? 'nИ 111 T When Mr Lee left Town A at 12 mon. Mr. The world be a distance arrang of :-15 km + (Spender X Timercus) = 15km + (60km/h x 1h) ISIN + GOLM 2 75 m <u>e</u> Difference is their speed 80 m/h - 60 m/h = 20 mm Time need for Mr Lee to add up : 75m + 20m/h = 37h

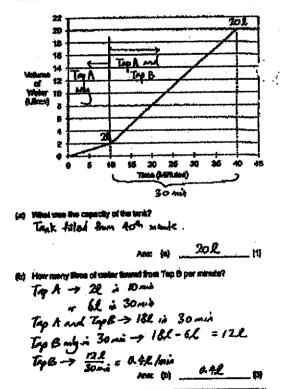
11 Tark Y and Tark Zaro has assimpting tarks. At trac, Tark Y contained as an water to a height of 42 cm and Tark Z was analy.



Ann 142 000 cm 3

(b) Kushwa powed epine subir tros Tack V into Tack Z. Aller that,

12 Etays siled a task with water using hos tapa, Tap A and Tap B. She harned on Tap A first. After 10 minutes, she function Tap B. Both taps water factored off at the source face which the facility store completely silest. The graph before shown the amount of varier in the bask over 45 minutes.



11

sectorsputer blocks of equal height & set G, as shown below. The solurpe of Mock B was 4782 and has been that of Mock C.

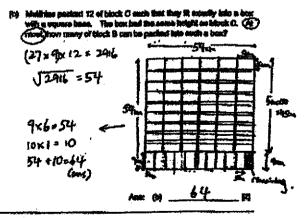


(a) What was the baight of each block?

27-5 = 22

4752 +(12x9) = 4762 +198 = 24cm(ans)

Ane (a) _______



.

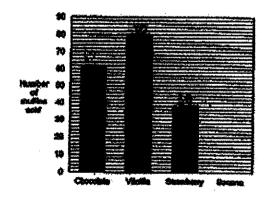
as What was the calo of the senter of gold takens to the sambur of show takens to the product of septer takens similar has at tent Go St.C. 3 : C. Tor-4

(b) Hear party alwar taken alki biodons exchanged for the Ser of mathem?

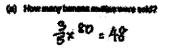
After G: C S: C

$$...$$
 $f: 1$ $f: 3$
suce no change for apper.
 $36: 9$ $12: 9$
 $G: 3: C$
 $36: 12: 9$
 $404-364=44$
 $444 -9 12$
 $4-9 123 + 73$ And (a) $\frac{45}{154-9}$ (5)
 $274 - 1214 = 154$

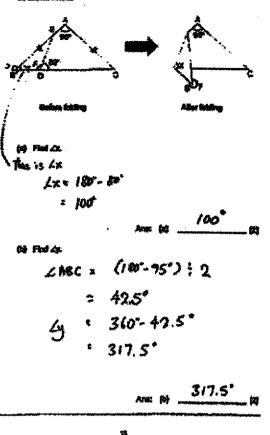
15 A shop wells have appear of modifin. The bar graph shows the number of each type of modific sold by the shop. The tax for the machine of barance modifies of it has not been drawn. The sweether of barance modifies odd mode 2 the number of vestile codd.



Anns (a)



15 ABC is a bimpole piece of paper with AS = AC, __GAC = 69*. App and BDC are studyinitized. The paper is this folded stong the two as shown bulker.

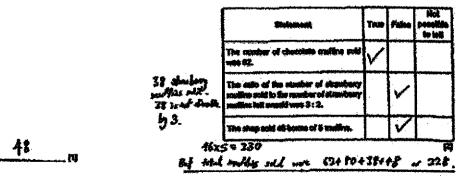


(1) The side before shows the prices of the resilies.

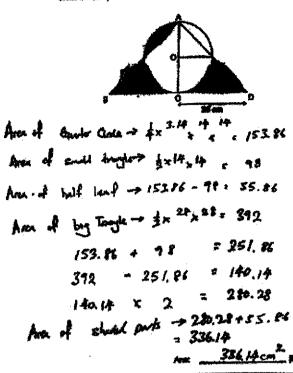
Type of section	Price per nautin
Chotolais	
Variation	50.70
Shreebergt	11.36

From the same of which type of multin tid the shop collect the most storage? Which was the amount of money?

(c) Each of the statements below is other how, fails or and possible to (c) the main behaviolish given. For such statement, puts this (*) to indicate year encode.



17 The figure below is table up of a weakhole, 2 Hartleri quarker divise and 2 Martine Apple-works because therefore, ACB and ACD, DA = CB = CD. O's five spoke of the dute. ACC and BCD are straight figure. Find the type prove of the standard parts. (Take n = 3,40)



End of Paper