

NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2021

PRIMARY 5

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 5 () 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 What is the place value of the digit 3 in 40.035?
 - (1) tens
 - (2) ones
 - (3) tenths
 - (4) hundredths

2 Which of the following is the same as 76 m?

- (1) 760 km
- (2) 7.6 km
- (3) 0.76 km
- (4) 0.076 km

- 3 Terry had 20 red buttons, 12 orange buttons and 32 purple buttons. What is the ratio of the number of red buttons to the number of orange buttons to the number of purple buttons?
 - (1) 4:3:8
 - (2) 5: 3: 8
 - (3) 5:8:3
 - (4) 3: 5: 8
- 4 Sarah can type 100 words in 1 minute. At this rate, how many words can she type in 1 hour?
 - (1) 600
 - (2) 1000
 - (3) 6000
 - (4) 10 000
- 5 There were 5000 participants in a cross country race. 1000 of them were children. What percentage of the participants in the race were children?
 - (1) 5%
 - (2) 20%
 - (3) 80%
 - (4) 500%

- 6 There were 840 toy bricks in a box. Jason used 70% of them to build a castle. How many toy bricks did he use to build the castle?
 - (1) 120
 - (2) 252
 - (3) 588
 - (4) 1200
- 7 Which line in the square grid is parallel to AB?



- (1) CD
- (2) EF
- (3) GH
- (4) JK

- -

8 What is the area of triangle ABC?

ġ.

s



- (1) 16 cm²
- (2) 20 cm²
- (3) 24 cm²
- (4) 32 cm²

9 Four triangles A, B, C and D are drawn on the square grid below. Which triangle is an acute-angled triangle?



- (1) A
- (2) B
- (3) C
- (4) D

10 The solid below is formed by unit cubes. How many unit cubes are there?



(1) 16

.

.

- (2) 20
- (3) 21
- (4) 30

11 Arrange the following fractions from the largest to the smallest.

		34		3	3 11		1	3 5	3	$\frac{3}{8}$
L	arges	t	2		2	S	malle 3	ist		
(1)	$\frac{3}{4}$	3	3 11	5	<u>3</u> 5	,	$\frac{3}{8}$			
(2)	<u>3</u> 11	,	$\frac{3}{8}$,	3 5	,	<u>3</u> 4			
(3)	$\frac{3}{4}$	7	3 8	,	<u>3</u> 11	,	3 5			
(4)	$\frac{3}{4}$,	3 5	,	3 8	;	$\frac{3}{11}$		·	

6

- 12 The product of two numbers is 99. One of the numbers is 9. Find the average of the two numbers.
 - (1) 10
 - (2) 11
 - (3) 20
 - (4) 50
- 13 There were 4700 kg of flour in a factory at first. After 3050 kg of flour were sold, all the remaining flour was packed equally into 300 packets. What was the mass of flour in each packet?
 - (1) 0.55 kg
 - (2) 1.65 kg
 - (3) 5.5 kg
 - (4) 16.5 kg

14 Vincent had 50 stickers at first. After giving $\frac{3}{10}$ of his stickers to George and 7 stickers to David, he had some stickers left. What fraction of the stickers did Vincent have left?

(1) $\frac{14}{25}$ (2) $\frac{11}{25}$ (3) $\frac{7}{10}$ (4) $\frac{4}{5}$

- 15 John had a roll of wire 10.55 m long. He cut 20 pieces of wire of equal length from the roll to give to his sister. He then had 0.35 m of wire left. What was the length of each piece of wire that he gave to his sister?
 - (1) 5.1 m
 - (2) 5.01 m
 - (3) 0.51 m
 - (4) 0.501 m



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 5 ()

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.

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 Find the value of $45 + (18 - 9) \times 5 + 8$.

.

.

Ans: _____

. .

17 Find the value of 7 + 8. Give your answer as a decimal.

Ans:

18 What is the missing number in the box?

8 : 🔲 = 32 : 48

Ans: _____

1

19 In the figure below, AHE, BHF and CHG are straight lines. $\angle DHE = 90^\circ$, $\angle BHA = 20^\circ$ and $\angle GHF = 40^\circ$. Find $\angle CHD$.



20 ABC is a triangle and AB = BC. Find \angle ABC.



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 Joash had a total 250 white marbles and black marbles. He lost 43 white marbles. After that, the ratio of the number of white marbles to black marbles he had was 1 : 2. How many white marbles did Joash have in the end?

Ans: _____

22 What is the value of $\frac{3}{4} \times \frac{2}{5}$?

Express your answer as a fraction in the simplest form.

Ans:

23 What is the volume of the cube shown below?



24 Find the average cost of the 3 items below.



Ans: \$_____

25 The breadth of a rectangle is 4.5 cm. Its length is twice its breadth. What is the area of the rectangle?

÷ [

.

Ans: _____ cm²

26 Krishna sold a total of 346 donuts on Saturday and Sunday. On Saturday, he sold 186 donuts. How many donuts did he sell on Sunday? Round your answer to the nearest hundred.

Ans: _____

27 The price of a laptop is \$2000 before GST. What is the price of the laptop after adding 7% GST?

Ans: \$_____

28 Nana stacked 8 unit cubes and glued them together to form the solid below.



Draw the front view and the side view of the solid on the grids below.

		Front View								S	ide	Viev	W			
•	٠	٠	٠	٠	٠	٠	٠		٠	٠	٠	٠	•	٠	٠	٠
	•		•		٠	٠			٠	٠	٠	-	•	٠	٠	٠
•	•				٠		•			٠	٠	-	•	٠	٠	٠
					ü					٠	٠		•	٠	٠	٠
•	٠	54	-				•		•	٠	-				٠	٠
*	٠		•	•	•						-	_	•			
٠	ņ	٠	٠	•	٠		۰		•	•	•	•	-	•	•	

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29 The figure below is made up of 4 identical rectangles ABCH, CDEK, KEFJ and JFGH. The length of each rectangle is 27 cm. Find the area of the shaded triangle ABF.



30 The table below shows the marks that Andy scored in his Science. English and Chinese tests. Part of the table is covered by an ink blot.

Test	Marks
Science	
English	7
Chinese	83

The full marks for each test was 100. The average score for his three tests was 76 marks. Find the highest possible marks that Andy scored in his Science test.

Ans: _____

End of Paper

7



NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2021

PRIMARY 5

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 expected, where appropriate.

Name: _____(

Class: Primary 5 ()

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 Bottle A contains $8\frac{1}{2}$ i of lemonade. Bottle B contains $4\frac{2}{5}$ i of lemonade more than bottle A. How many litres of lemonade are there in bottle A and bottle B altogether?

Ans: _____ l

2 A builder used $7\frac{3}{8}$ kg of cement to build a wall. How much cement did he use to build 4 such walls?

Ans: _____kg

3 Mr Tan bought 5 calculators on Monday. The average cost of these calculators was \$38. He bought another calculator at \$50 on Tuesday. Find the average cost of all the calculators he bought on these 2 days.

Ans: \$_____

4 In the figure below, ABC is an equilateral triangle and BCD is an isosceles triangle with BD = CD. AED is a straight line. AED is perpendicular to BEC. $\angle ACD = \angle ABD = 90^\circ$. Find $\angle ADC$.



Ans:

5 Kelly has \$50 to buy a cake and a fruit basket for her mother. The tables below show the types of cakes and the types of fruit baskets available for sale in a shop.

	Price per cake
Blueberry Cake	\$30.90
Strawberry Cake	\$35.90
Chocolate Cake	\$28.90

	Price per fruit baske			
Fruit Basket A	\$18.80			
Fruit Basket B	\$28.80			
Fruit Basket C	\$20.80			

How many possible sets can she choose to buy given that each set consists of a cake and a fruit basket?

.

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 Cailing bought 4 oranges and 5 apples for \$7.70. John paid \$4.30 for 2 such oranges and 3 such apples. What was the cost of each apple?

Ans: _____ [3]

A baker baked 180 muffins. 30% of them were chocolate muffins,
50 of them were blueberry muffins and the rest were strawberry muffins.
How many more strawberry muffins than chocolate muffins did he bake?

Ans:

_ [3]

8 In the figure below, ABCD is a rectangle. E is a point on line AB. F and G are points on line DC. The total shaded area of triangles DEF and FBG is 112 cm². AD = 14 cm and GC = 4 cm. Find the area of rectangle ABCD.



Ans:

[3]

9 At a party, the ratio of the number of adults to the number of children is 2:3. A total of 420 balloons are given to the adults and the children. Each adult gets 4 balloons and each child gets 2 balloons. How many children are there at the party?

Ans: _____

_ [3]

10 Five numbers were written on the whiteboard as shown below:



- (a) Write down the 3 numbers that will give an average of 51.
- (b) After John wrote a 2-digit number on the same whiteboard, the new average of the six numbers became a multiple of 3. What was the largest possible 2-digit number written by John?



11 Salleh worked $6\frac{2}{3}$ h daily from Monday to Friday. He worked $4\frac{2}{3}$ h on Saturday. He did not work on Sunday. He was paid \$12 per hour. How many such weeks must he work to be paid a total of \$4104?

Ans: _____ [4]

12 A tank measuring 50 cm by 20 cm by 40 cm was $\frac{1}{4}$ filled with water as shown below. After some water was added into the tank, the water level in the tank increased to $\frac{3}{5}$ of the height of the tank. How much water was added into the tank? Express your answer in litres.



Ans: _____ [4]

- 13 Zhi Ming, John and Raymond had the same amount of money at first. Zhi Ming spent all his money to buy a shirt and 6 pairs of identical socks. John bought 1 such shirt and a pair of trousers and had \$72 left. The pair of trousers cost \$8 more than each pair of socks.
 - (a) What was the cost of the pair of trousers?
 - (b) Raymond only bought 1 such shirt. How much money did he have left?

Ans: (a) _____ [3]

(b) _____ [1]

14 In the figure below, ABCD is a rectangle. DEFG is a square and AGF is a right-angled triangle. AGHD, FHC and EDC are straight lines.



(a) Find the area of triangle AGF.

.

(b) Find the total area of the shaded parts.



- 15 Mrs Ho had a total of 345 red beads and blue beads at first. She sold half of the red beads and bought another 30 blue beads. In the end, she had an equal number of red and blue beads.
 - (a) How many red beads did she have at first?
 - (b) How many more red beads than blue beads did she have at first?



(b) ______(1]

The table below shows the bicycle rental charges of two bicycle shops, 16 Anyhow Ride and Superbike.

Bicycle Rer	ntal Charges	
า มีสารางการสำนักเรื่อง ขึ้นสำนักเรื่องที่ได้สืบสารางการเป็นการสารการในการสารางการให้การสาราง 2016 การ เป็นสาร	Anyhow Ride	Superbike
For the first hour or part thereof	\$14.40	\$12.00
For every additional $\frac{1}{2}$ hour or part thereof	\$2.20	\$2.80

- (a) Suzy rented a bicycle for 3.5 hours from Anyhow Ride. Rashid rented a bicycle for 3.5 hours from Superbike. Who paid more for the rental charge, Suzy or Rashid, and how much more?
- (b) Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) to indicate your answer.

Statement	True	False	Not possible to tell
Ahmad rented a bicycle from Superbike for 2 hours. He paid \$17.60 for the bicycle rental charge.			
Benny wants to rent a bicycle for more than 2 hours. It is cheaper for him to rent it from Anyhow Ride than from Superbike.			
Jian Hao rented a bicycle from Anyhow Ride. Timothy rented a bicycle from Superbike. Both of them rented their bicycles from 6.30 a.m. to 7.40 a.m. on Monday. Jian Hao paid \$1.80 more than Timothy for the bicycle rental			
charge.	J		[2]

[4]

Ans: (a) Name: _____ [1]

_____ more [2]

17 Tisha uses circles and triangles to form figures that follow a pattern as shown below.



(a) The table below shows the number of circles and triangles for the first four figures. Complete the table for Figure 5.

1	2	3	4	5
4	8	12	16	
4	7	10	13	
8	15	22	29	
	1 4 4 8	1 2 4 8 4 7 8 15	4 7 10	4 7 10 13

- (b) Find the number of triangles in Figure 100.
- (c) Find the total number of circles and triangles in Figure 25.



End of Paper

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PS Mathis EVE 2021 CANSWER Key)

(4)

Cutescents 1 or to carry a must sear. Observation 1 with a scale for an and watch For each queetion, four options are given. One of Stem Is the Option answer, Make your choice (1, 2, 3 or 4) and shade your answer on the Option Answer Shaet. (20 marks)

1 White is the place value of the digit 3 in 40.0357

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- (2) 0/08
- (3) Lenitre
- (a) hundredsta

2 Which of the following is the same as 76 mil

- (f) 760 km
- (2) 7.8 km
- (4) (4)
- (4) 0.078 km

Yony had 20 red building, 12 crange building and 32 purple building. What is the radio of the number of red building to the number of crange building to the number of purgle building?

(1)	4:3:5	R: O.P	
(2)	\$; \$; \$	20:12:32	244
(3)	£ £ 3	5:3:8	(2)

(4) L&#

4 Sarah can type 100 words in 1 minute. At this take, have many topeds, can she type in 1 hour?

(1)	609	100×60+ 6000	
125	1000		
(3)	6200		(3)

(4) 10 000

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S There were 5000 participants in a cross country roos. 1000 of their were children. What percentage of the participants in the race were children?



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8 There were 840 toy brides in a box. Joson used 70% of linem to build a cessile. How many toy bridles did the uses to build the castle?

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Y Which the in the square grid is perulial to A37



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(4)



(4) 2



What is the area of blangle ABC?



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Four kingles A, B, Cand D are drawn on the square gold below. Which 9 oriencie la en acute engled tritogle?









12 The product of two numbers is 99. One of the members is 9. Find the average of the two ministers.

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There were 4700 for of hour in a factory at first. — After 3050 kg of Abur were able, all the cumulating flour was packed equally into 300 packets. What were the mass of flour in each packet? 12



2

14 Vincent had 50 address at first. After going 3 of his address to George and 7 slickers to David, he had some slickers loft. With inscilion of the sockers did Vincont have fell?



John had a roll of whe '10:35 m long. He cut 20 places of wine of equal langth from the roll to give to his statur. He then had 0.35 m of white left. What was the bright of worth place of whe that be gave to his sinter? 15

	10-55-0-35= 10-2				
(1)	51 m	(0:2 2 20 = 10·2 20 2 MD			
ø	501a	= シーンロ			
	0.51 m	≈ Ø·51			
(4)	0.301 m	(3)			

3

Observations is to 26 carry 1 mark earch. Within your ensures in the appoints permitted. For grounders which require usits, give your amarine in the units statist. (6 marks)

- 18 Find the value of 45 + (18~5) × 5 + 8. 45 ナ 9 × 5 + 8
 - = 5×5+8 = >5+8 = 33 Arr.__3
- 17 Find the value of 7 + 8. Give your ensurer at a declinat. 0-975 957-000 -640 -640 -53 40 -90 -40 0-875Anar 0-875
- 14 What is the Missing number in the box?

Artt _____

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21 Joach had a local 250 while anables and black marites. He lost 43 while marites. Allor field, the ratio of the number of while marities to black markes he had was 1 : 2. How many while markles did Joseh have in the 4007.

22 Write the value of $\frac{3}{4} \times \frac{2}{5}$? Express your answer as a faction in the simplest form,

3

19 In the figure balow, AHE, OHF and CHO are straight lines. 20HE = 90", 20HA = 20" and 20HE = 40". First 20HD.



20 ABC is a biangle and AS + SC. First ZABC.



23 What is the volume of the cube shown halow?



ANK: 512 001

24 Find the antengo cost of the 3 berry below.



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25 The breadth of a rectangle is 4.6 cm. As rength is twice its breadth. What is the step of the rectangle?

26 Kristva sold a total of 346 donats on Seturday and Sanday. On Saturday, he sold 186 densis. How many downs, did he soll on Sunday? Round your ensurer to the reservat hundred.

***: <u>200</u>

27 The price of a topico is \$2000 below G\$7, "What is the price of the ispice after adding 7% 637?



2440 Are \$_

29 The figure below is noted up of 4 idealized suctorgies A9CH, COEK, KEFF and JEGH. The length of each sectorgie is 27 cm. Find the area of the staded biorgie ABF.

5



Anne <u>486</u> em³

30 The table below shows the marks that Andy scored in his Science, English and Chinese tests. Part of the table is severed by an Wit blot.



The full marks for each last was 100. The merage store for bit these seels was 78 marks. Find the bighest possible marks that Andy account is the Reference last.

75



Ans

26 Name stacked 8 will cubes and glued them together to form the solid below.



Draw the front view and the side view of the solid on the grids before.



Quantitions 3 to 5 carry 2 starts each. Show your working clashy and works your answors in the apaces perioded. For quantities which require units, give your approves in the units stated. [10 starts/s]

1 Botto A contains 8¹/₂ (of lomonade. Botto B contains 4²/₅ (of lantonade more that botto A. How wanty litras of lemonade are itsee in botto A and botto B allogither?)

Mr 213

2 A builder used 7³/₂ by of commit to build a wall. How much combined in the use to build 4 auch wells?

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hts Tan bought if Calculators on Monday. The sintrage cost of Shake collouistons was \$35. He bought another celebators at \$50 as Tokeday. Find the systage cost of all the celebators he bought on these 2 days. ð

> 5×38=190 (90+50 = 240 2076=40

-	Las: \$ 40			
4	In the figure balow, ABC is an equilibrium triangle and BCD is an isoaceles triangle with BD = CD. AED is a stealph fee. AED is perpendicular to BEC2ACD = _2ABD = 50°. Find _2ADC.			



Ans.

LECD = 90- 60 - 30-

60

Kelly has \$20 to bey a cake and a limit bested for her moduler. The bidge below show the types of cakes and he types of fruit besters evaluate for sale in a shop. Æ

	Price per cake
Ekoborry Colus	\$30.90
Stanberry Celes	\$35,90
Chocolasie Calor	\$28.60

	Price par fruit basiset
Fail Basest A	\$18.80
Fed Backet B	\$28.90
Fast Gazdet C	520_60

How many possible sets can also choose to buy given Brat each set consists of a cashe and a fruit backet?

Bluebury Cake + Fruit Basket AX34970; Charlete Cake + Fruit Basket A -> (8477.70; Charlete Cole + Freit Bechet C-+ (\$49.7-



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

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Caling bought 4 oranges and 5 splice for \$7.70. John pold \$4.30 for 2 such oranges and 3 such splice. What was the cost of each apple? 6

> \$430+2= \$1.60 \$6.60 - \$7.70 = \$0.90

\$0- 4	jo

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7 A better halfsof 160 multility. 30% of them were of outside multility, 50 of them were bloebonly multility and the test very attractory anding. How many more abanybary multility that dash chocolate multility did be below?

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器x 100= 54 180-54-50= 76 76-54 +22

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F and G are points of and FBG in 112 cm		Shul the seas
HALFOG IN THE CEP.	n dê e ede	Litter Ride in call
rectangle ABCD.		

in the igure below, ABCD is a rectangle. E is a point on line AB



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4 x 14×4 + 28 12+24 = 140 14 ×2 - 280

280 cm سلامه 131 ER. Anic _ Anc

- At a party, the ratio of the number of adotte to the number of phildren to 2 : 3. A total of 420 believes are given to be adults and the childres. Such solut gets 4 believes and each debt gets 2 believes. How many children are there at the party? ۵
 - 284+3×2=14 420714=30 30×3= 90

Fire numbers were witten on the whileboard as shown below; 10

62, 43, 120, 11, 99

(a) Wide down the 3 numbers that we give an avalage of \$1.

(b) After John wrole #2-fight number on the same whiteboard, the law average of the strauenters became a multiple of 3. What was the targest possible 2-fight number written by John?

62+43+120+11+99=335 335 + 5 - 67 69 × 6 -335=79 72 ×6 - 335=97 ~

90

(3)

Salleh worked θ_S^2 is daily from Monday to Fidday. He worked θ_S^2 is on 11 Seturday. He did not work on Sunday. He was pass \$12 per hour. How many such weeks must be work to be paid a lotsi of \$4104?

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12 A tank measuring 60 on by 20 on by 40 on was $\frac{1}{4}$ filed with water as r was added fold the task, the water shown below. After some waln ad to $\frac{3}{5}$ of the bally it of the bank. How much

r 1995 added into the bank? Express your anower in Alves.

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(a) <u>43, 11, 99</u> m (b) <u>97</u> P

(0)

$$\frac{1}{30} \times \frac{10}{2000} \times \frac{1$$

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Ans:

142 M Ane:

- Zhi Ming, John and Raymond hal line same encount of money at test. Zhi Ming spant at his money is buy's start and 6 pairs of identical socks. John bought is such shift and a pair of measure and had \$72 lot. The pair of trousers cost \$4 more than each pair of socks. 13
 - (a) What was the cost of the par of trouvers?
 - (b) Reymond only bought I such shirt. How much money did to have 682



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Mrs Ho had a total of 345 roof bases and have beede at link. She sold have beede at link of the red bases and bought assister 30 biss bases. In line and, 16 after had an usual member of and and blue beads.

(a) How many rad beads did she tave at first?

(b) How many more red beads than blue beads did she have at first?

in the ligners bollow, APCD is a rectingle. DEFG is a square and AQF is a right-explud Mangim. ACHED, FHC and EDC are similar taxes, 12



(c) Find the site of Mangie AGF.

(b) Find the total area of the obsided parts.

1 x (35-15) x 15 + 150 (40x 35)+ (15x15) = 1625 4x15x (15+4+) = 412.5 (ACEP) 1×35×40 = 700 (A ABC) 1625-412-5-700=5125 Anat (a) (SDCar M)

512.5cm 1 09.

The table before above the bicycle reast charges of two bicycle shops, 50 Ammour Fade and Superbike.

15

Stoycle Pier	al Charges			
	Anymow Files	Superbilite		
For the first hour or part thereof	\$14,40	\$12,00		
For every additional $\frac{1}{2}$ hour or	\$2,20	32,60		
part thereof				

indicate your dry **.**

Sistement	True	Fatee	Not poesible to tell
Alunad rented a bioyole from Superbille for 2 hours. He paid \$17.00 for the bloyde restai charge.	V		
Beeng wants to north a Mayola for more than 2 hours. It is chosportforthin to rest in form Angleour Fode ithan from Superhilds.			~
Jen Han rendet a bioycle from Anytow Rida. Theodity similed a bioycle from Superblas. Soft of Been rendet built bicycles from 6.30 a.m. to 7.40 a.m. of alonday. Jen Han path \$1.50 area alonday. Jen Han path \$1.50 area Gen Theody for Sin bicycle saves charge.	~		
Aer: (a)	Nami Kara	<u>Ra</u> ;	shid o

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17 Baha unse dicks and kningles to form (gams first follow 8 patient as shown before.



(a) The table below shows the counter of Crists and stangles for the line landgenet. Complete the table to Figure 5.

Sauge Marcher	1 1	2	3	4	4
Number of these	4	8	12	10	20
Namber of Standes		7	10	13	76
Total number of circles		15	22	25	36

(b) Find the mumber of transities in Figure 198.

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(c) Find the total number of circles and biangles in Figure 25.

End of Paper

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