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MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 18 AUGUST 2023 PAPER 1

(BOOKLET A)

15 questions 20 marks Total time for Booklets A and B: 1 hour

NAME:	. ()
CLASS: PRIMARY 6		

INSTRUCTIONS TO CANDIDATES

- 1. DO NOT OPEN THIS BOOKLET 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. YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.



WARES STELLA HIGH SCHOOL (PRIMARY) PRIMARY EXAMINATION PRIMARY 6 WATHEWATICS 18 AUGUST 2023 PAPER 1

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18. 文名英籍[194] 计文本语句

PRIAGRANCE PROBLEMAN

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和A 建产品设施 (1985年)

到"看我的感情看你的原来,更是"进步器"。2017年代,他们进步的"进步",我们将将在3.4km 第二章 (b. 3)

《本理者》,整个本则是是基础的,并被推荐,这个人都有一个特殊的。

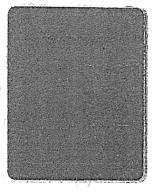
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(20 marks)

- 1. Which of the following is seventy-five thousand and thirty in numerals?
 - (1) 7530
 - (2) 75 030
 - (3) 75 300
 - (4) 750 030
- 2. The diagram shows a tablet used in a lesson in the classroom. Which of the following could be the mass of the tablet?



- (2) 8 kg
- (3) 80 kg
- (4) 800 g



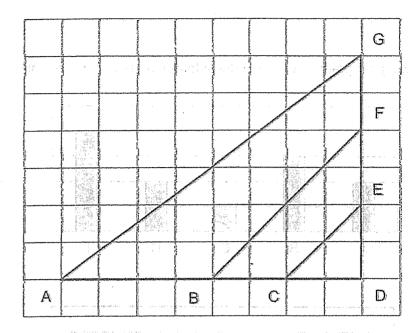
3. Arrange these fractions from the smallest to the largest.

$$\frac{4}{5}$$
 , $\frac{3}{7}$, $\frac{2}{3}$

<u>Smallest</u>			Largest
(1)	$\frac{2}{3}$.	3 7:	<u>4</u> 5
(2)	$\frac{3}{7}$.	4 5 ·	<u>2</u> 3
(3)	$\frac{3}{7}$.	$\frac{2}{3}$,	<u>4</u> 5
(4)	$\frac{4}{5}$,	<u>2</u> 3 '	$\frac{3}{7}$

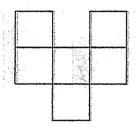
4.	Which	number is the lar	gest?				
earson of	(1)	0.78	en and a second			1. n	
	(2)	0.87 Palaramon or yin	sa has nos	erit austrustans.	anta i de los Nacionalis	. 80 - 5988 IV. VĒ	· .40.
	(3)	0.708	TI, BUZTAT ULTABTUUL.	and also kander	erik de gji ti titak		
	(4)	0.807				07.5	₹.Ţ.,
						980 61	3.
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		20				080 081	(D *
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	(4)	3.22				\$11.00	
						Q. C.	e e e e e e e e e e e e e e e e e e e
6.	Expre	ss 3080 cm in m.				(38)	\$.
	(1)	3.08 m				\$1.57°)	
	(2)	3.8 m					
	(3)	30.08 m					
	(4)	30.8 m					
7.	Roun	d 3.465 to 2 decin	nal places.	ระด้วยเลา หรืาย	eti e ^{ti} petite ili.	Eggine Carlo	run in tall the
	(1)	3.40					
	(2)	3.46		8]			
	(3)	3.47					
	(4)	3.50					7°
						Tustier	
8.	In a ba	asket, there were	4 apples, 8 pe	ears and 12 p	apayas. Wh	at is the ra	tio of the
	numbe	er of apples to the	total number	or pears and	ş -		
	(1)	1:5		8	13	٠	
	(2)	5:1		. 3			i i
	(3)	1:2					•
	(4)	1:3		<u>*</u>			· · .

9. Which 2 lines are parallel to each other?

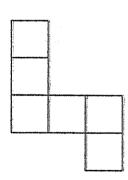


- (1) AD and DG
- (2) AG and BF
- (3) AG and CE
- (4) BF and CE
- 10. Which of the following is a net of a cube?

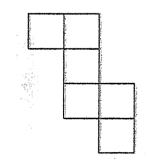
(1)



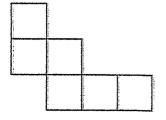
(2)



(3)



(4)

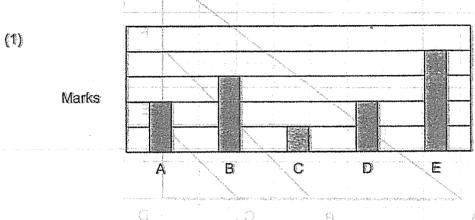


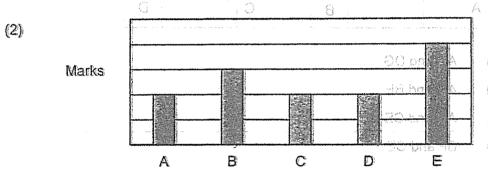
11. The table shows the marks scored by 5 students in a test.

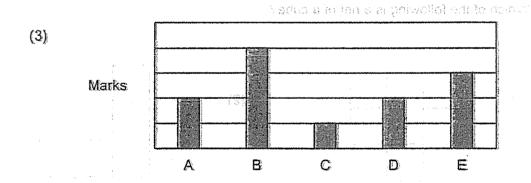
		912	si to each oth	Hersa ars ea r	ni CanidW
Students	· A	В	C	D	E
Marks	20	-30-	10	20	40

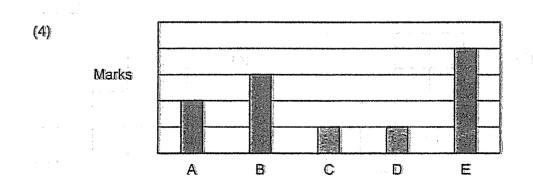
Which of the following bar graphs represents the information shown in the table above?

9.

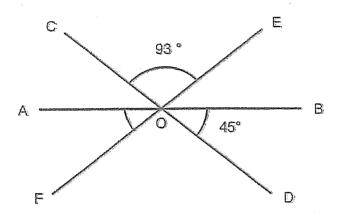




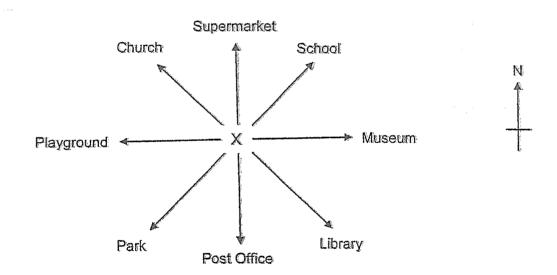




12. In the figure, AB, CD and EF are straight lines. Find ∠AOF.



- (1) 42°
- (2) 45°
- (3) 48°
- (4) 87°
- 13. Tom and Jerry were standing at X, facing the same place at first. Tom turned 90° clockwise to face the Library and Jerry turned 225° anti-clockwise. Where will Jerry face in the end?



- (1) Church
- (2) Post Office
- (3) Park
- (4) School

14. The table below shows the range of marks scored by a group of 220 students in a competition.

	1 \$8
Marks	Number of students
70	24
75	44
80	23x \ /108 /
85	36
90	8

20% of the students in this group qualified for the next round. What is the minimum score needed to qualify for the next round?

- (1) 75
- (2) 80
- (3) 85
- (4) 90
- 15. At a party, 20% of the people were men, 55% of the remaining people were women and the rest were children. There were 100 men. How many children were there at the party?

NA beautiful and C. Pirk and appropriate present of all people are recognized in a company of

- (1) 125
- (2) 180
- (3) 220
- (4) 500

END OF BOOKLET A
GO TO BOOKLET B

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Index No.				_	and the same of



MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 18 AUGUST 2023 PAPER 1 (BOOKLET B)

15 questions 25 marks Total time for Booklets A and B: 1 hour

	NAME:	()
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INSTRUCTIONS TO CANDIDATES

- 1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
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MARKS OBTAINED FOR					
PAPER 1 (BOOKLE)	/ 20	Parent's Signature:			
PAPER 1 (BOOKLET B)	/ 25				
TOTAL	/ 45	Date:			



MARIS STELLA HIGH SCHOOL (FRIMARY) PREL MINARY EXAMINATION PRIMARY 6 MATHEMATICS 18 AUGUST 2023 PAPER 1 PAPER 1 (BOOKLET B)

10 questions 26 marks

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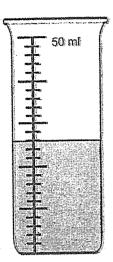
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garania (m. 1917). Yang kalang ka

16. Find the value of	of (74 – 36) x 10 + 6 ÷ 2
	Answer:
17. How many sixth	ns are there in 51?
20.48 5	ns are there in $5\frac{1}{3}$?
was sumple to be suppled	to the first time to the state of the state
	A
	Answer:
	Answer:
8. Find the value o	Answer:
8. Find the value o	Answer:
8. Find the value o	Answer:
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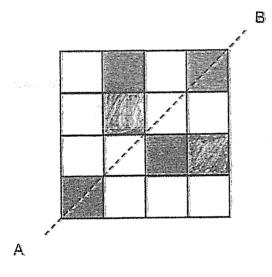
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2 × 6 × 60 x (84 × 36) x 10 × 6 × 2

Answer: _____ml

20. Given the line of symmetry line AB, shade 2 squares to complete the symmetric figure.



SCORE (Go on to the next page)

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 answer in the units stated.

(20 marks)

Do not write in this space.

21. (a) Find the value of $1 - \frac{1}{3} - \frac{1}{5}$

Answer: (a)

(b) Find the value of $11 \div \frac{3}{5}$

Answer: (b)

Denise answered 20 questions in a survey. She took 3 min for each of the first 10 questions and twice as long for each of the remaining questions. She started her survey at 1.20 p.m. At what time did she complete her survey?

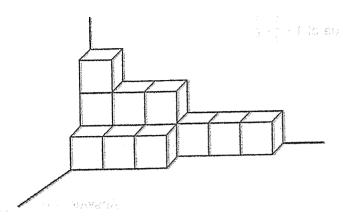
nswer:_____p

	From the figure below, what is the minimum number of unit cubes that needs to be
377	we added to form a cuboid? The service whom they were service the best to the

Do not write in this space.

78

18



Answer:

24. The ratio of the number of stickers Kingston had to the number of stickers Tim had was 8:5. After Kingston gave away 44 stickers, Tim had twice as many stickers as Kingston. How many stickers did they have at first?

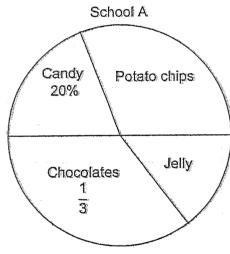
Answer:

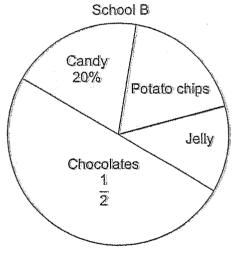
25. Pauline drove from her home to her office. The distance between her home and her office was 24 km. The average speed of her car was 60 km/h. Pauline left home at 0815, what time did she reach her office?

Do not write in this space.

Inswer	41		
THOUSE	No.		

26. The pie chart shows the favourite snacks of students in School A and B.





Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick $(\sqrt{})$ in the correct column.

Statement	True	False	Not possible to tell
An equal number of students in School A and School B chose candy as their favourite			
snack.			
$\frac{3}{4}$ of the students in School B chose		agent for the state of the stat	
chocolates and candy as their favourite snacks.	Control of the Contro		

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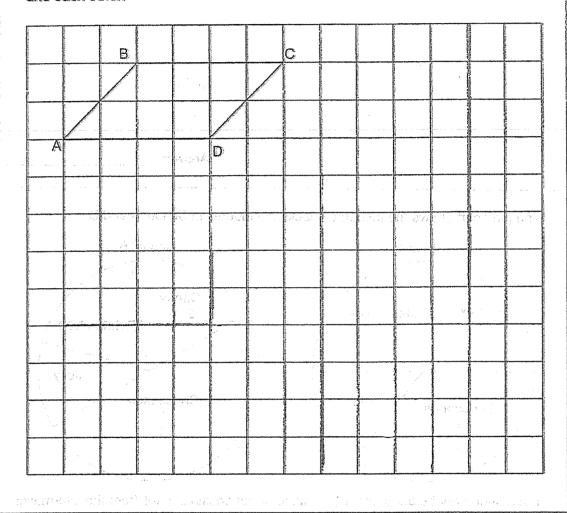
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- A parallelogram, ABCD is drawn on a square grid.

 The billion of the mass was confished and for the long of emport and more avoid annual to a smooth the parallelogram ABCD. Label it EFG.
 - Draw a parallelogram that has twice the perimeter as the parallelogram (b) ABCD. Label it WXYZ.

Both triangle EFG and parallelogram WXYZ should not overlap parallelogram ABCD and each other.

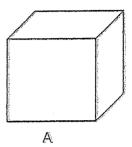


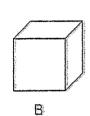
28. Andy had \$5x. After buying apples at 60¢ each, he had \$2x left. How many apples did Andy buy?

Answer:

29. Benedict has 2 cubical tanks, A and B. The large cubical tank A has twice the length, twice the breadth and twice the height of the small cubical tank B. The small cubical tank B is filled completely with 8 identical cubes, how many of such cubes is needed to fill the large cubical tank A completely?

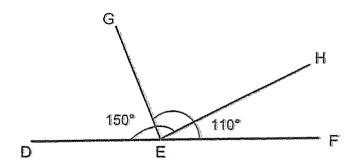
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Answer:

30. In the figure, DEF is a straight line. \angle DEH = 150° and \angle GEF = 110°. Find \angle GEH.



Answer:

End of Booklet B

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MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 18 AUGUST 2023 PAPER 2

17 questions 55 marks

Time: 1 h 30 min

NAME:	. C)
CLASS: PRIMARY 6		

INSTRUCTIONS TO CANDIDATES

- 1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- 2. FOLLOW ALL INSTRUCTIONS CAREFULLY.
- 3. ANSWER ALL QUESTIONS.
- 4. SHOW YOUR WORKINGS CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.
- 5. WRITE YOUR ANSWERS IN THIS BOOKLET.
- 6. YOU ARE ALLOWED TO USE A CALCULATOR.

MARKS OBTAINED FOR									
PAPER 1 (BOOKLET A & B)	/ 45	Parent's Signature:							
PAPER 2	/ 55								
TOTAL	/100	Date:							



WARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 18 AUGUST 2023 PAPER 2

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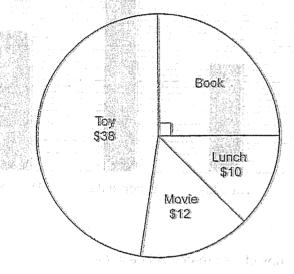
un en la company de la la company de la c La company de la company d

CHO POR

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

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1. The pie chart shows how Michael spent his money.



(a) How much money did Michael spend on the book?

Answer : (a) \$_____

(b) What percentage of Michael's money was spent on lunch?

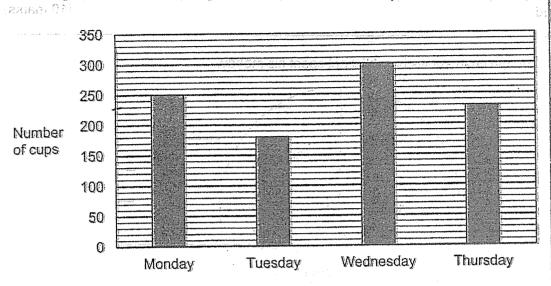
Answer: (b) _____%

The bar graph shows the number of cups of ice cream sold in a shop.

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What is the average number of cups of ice cream sold each day?

Answer:

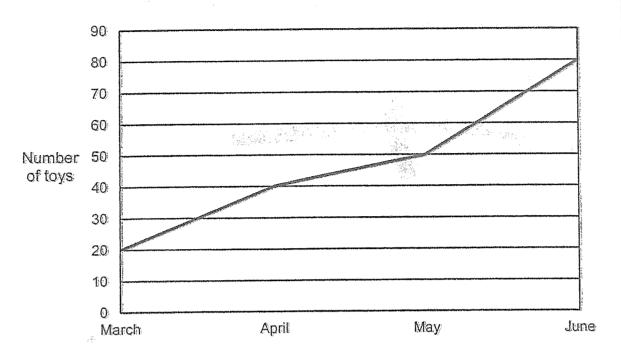
3. Jimmy gave his mother \$1200 of his salary. He gave $\frac{5}{8}$ of the remainder of his salary to his brother and had $\frac{1}{4}$ of his salary left. What was Jimmy's salary?

Answer: \$ _____

in 1876) Asiling in the Control of t

4. The graph shows the number of toys sold by a shop from March to June.

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In which 1-month interval was the percentage increase of toys sold the most?

Answer: ______to ____

emic of dotal mort god, is yet true byet to terme will twelf dispipled. Kon Ki 5. A 1 m wide path cuts across a rectangular field along its length and breadth, forming ear as a path as shown. What is the area of the path? 1 m wide 8 m path Security for meaning a first meaning the most comparation and the security of Answer:_

SCORE (Go on to the next page)

\$40 B + 1 + 1

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. (45 marks)

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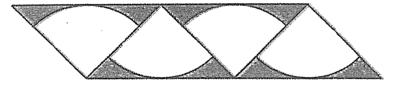
- 6. Mr Lee had a piece of wire 26y cm long. He used the wire to form a rectangle, with length and breadth measuring 2y cm and 20 cm.
 - (a) Express the length of the remaining wire in terms of y.

Answer : (a) [1]

(b) Mr Lee used the remaining wire to make a square. If y = 4, what was the length of one side of the square?

Answer: (b) _____[2]

7. The diagram below shows 4 identical right-angled isosceles triangles with a quadrant within it. The quadrant has a radius of 7.5 cm.



(Take $\pi = 3.14$)

Find the area of the shaded part.

\nswer:_____[3]

10n (8 The figure shows a square ABCD. EH = EF = EGDFind ZFGHORE TO be a controup nose to the entitle of the second of th Do not write in กเรยเพื่ (45 marks) this: ant spage. space. A Vangle, with Mr Lee had a prece of wire Joy on land, he used length and broadth measuring 2v cm and 20 cm Express the langth of the residence wro · SEH D องที่ เพราะที่สูกสามาและวันหายสายสายสายสายการเกาะที่ และสายสาย ความสายสายสาย

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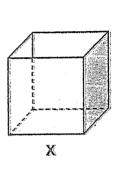
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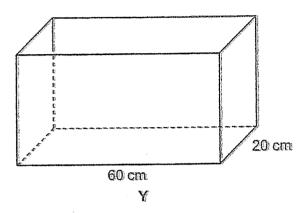
Answer:

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10. X is a cubical tank of sides 20 cm and Y is a rectangular tank. The base of Y has dimensions as shown. X was fully filled with water and Y was empty.

Do not write in this space.





Samuel poured some water from X into Y without spilling. After that, the heights of the water level of X and Y were the same. What was the final height of the water level in both tanks?

Answer	•		3
ALCOMAC:	41	1.	4

11. The table shows the scores of 4 students in a Math test. Some of the scores are covered by an ink patch.

Do not write in this space.

Name	Test Score
Aloysius	6
Benedict	8
Charles	7
Dominic	8.2

The average score of Charles and Dominic is 80. The average score of Aloysius, Benedict and Charles is 74. What is the largest possible score that Benedict has achieved?

Answer	a.		[3	1
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SCORE (Go on to the next page)

Answer:

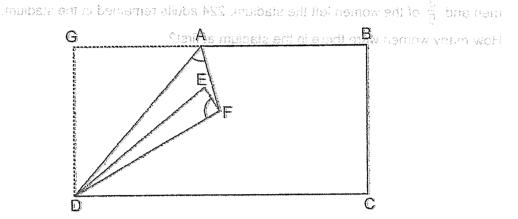
13. There were 400 adults attending a concert in a stadium. During the break, $\frac{1}{3}$ of the men and $\frac{3}{5}$ of the women left the stadium. 224 adults remained in the stadium. How many women were there in the stadium at first?

Do not write in this space.

Answer: _____[4]

to the figure, a rectangular piece of paper is folded twice. ∠GDA = 36° and a solution of LADE = 10° and public multiplicate a number of good with allubations of the extension of the contraction of the c

Do not write in this space.



(a) Find ∠DAF.

Answer: (a) _____[2]

(b) Find ∠DFE.

continues with the col

Answer : (b) _____[2]

15.	strawb strawb	morning, Mrs Chen baked muffins of 3 different flavours – chocolate, erry and vanilla. The ratio of the number of chocolate muffins to the number of erry muffins was 3:5. There were 28 more strawberry muffins than chocolate at the transfer of the number of chocolate at the transfer of the more vanilla muffins than strawberry muffins. How many vanilla muffins did she bake in the morning?	
		Theorem is the will be to the control of the contro	
		Answer: (a)[2	1
	numbe	flernoon, she baked some more chocolate and vanilla muffins. The total of chocolate and vanilla muffins became thrice the number of strawberry. The percentage increase of the chocolate muffins was between 8% to 10%.	
	(b)	How many vanilla muffins did she bake in the afternoon?	

SCORE (Go on to the next page)

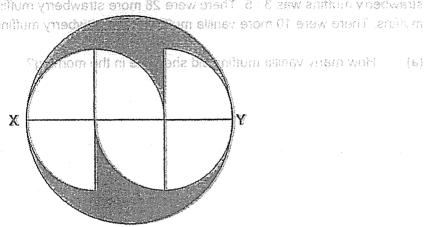
Do not write in this space.

Answer: (b)_

.61 not write in this space.

The figure shows a circle and 6 identical quarter circles. The radius of each quarter incircle is 8 cm./Line XY passes through the centre of the circle. Strawberry auditors was 3 · 5. There were 28 more strawberry muffins than chocolate.

Do not write in this space.



(Take $\pi = 3.14$)

(a) Find the area of the shaded part.

3 (a) PevenA

nerge soft i perfector spirate and early and early and perfect of the following in the following spirate of the following spirate of the following spirate of the perfect o

Answer: (a) [2]

(b) Find the perimeter of the shaded part.

Answer : (b) _____

In June, Mr Tan saved 20% of his salary. In July, his monthly salary increased by 17. \$600 and he saved 15% of his new monthly salary. Given that Mr Tan saved the same amount of money in both months, find the percentage increase in Mr Tan's salary.

Answer:

Do not

write in

this space. 7. in June, Mir Tan caved 20% of his salary, in July, his monthly salary increased by \$600 and he saved 15% of his new monthly, solarly. Given that Mr Tan saved the same amount of money in both months, find the percentage increase in Mr Tan's salary.

APPROXICE STATES APPROXICE STATES APPROXICE AP

British Market Control

SCHOOL :

Maris Stellar PRIMARY SCHOOL

LEVEL

PRIMARY 6

SUBJECT: MATH

TERM :

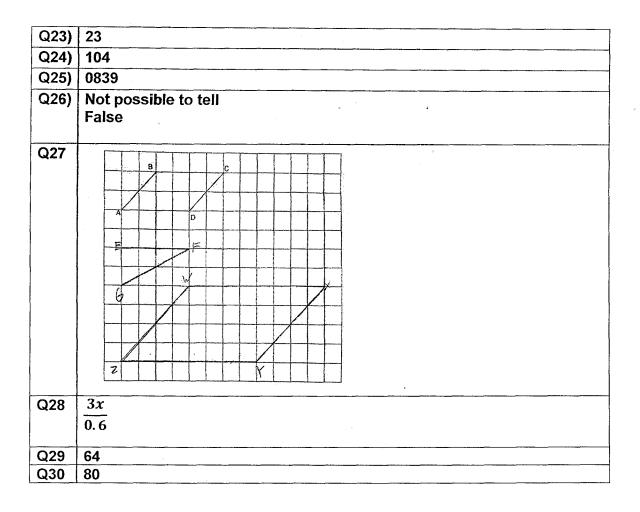
2023 Prelims

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	3	2	3	4	3	1	4	3
Q10	Q12	Q13	Q14	Q15					
1	1	2	3	2				-	

PAPER 1 BOOKLET B

Q16)	383
Q17)	32
Q18)	6.73
Q19)	26
Q20)	B
	A
Q21	7
a)	15
Q21 b)	$18\frac{1}{3}$
Q22)	2.50



PAPER 2

Q1a)	38 + 12 + 10 = 60
-	$60 \div 3 = 20$
	• •
Q1b)	20*4=80
	10 100 12 50/
	$\frac{10}{80} * 100 = 12.5\%$
Q2)	250 + 180 + 300 + 230 = 960
	$960 \div 4 = 240$
Q3)	1 2 2
	$\frac{1}{4} \div 3 * 8 = \frac{2}{3}$
	$1200 = \frac{1}{3}$
	$\frac{1200}{3}$
	$\frac{3}{3} = 1200 * 3 = 3600$
	$\frac{3}{3} = 1200 * 3 = 3600$
Q4)	March to April
Q5)	18 + 8 = 26
3(0)	$\begin{vmatrix} 16 + 6 - 26 \\ 26 - 1 = 25 \end{vmatrix}$
L	20-1-23



	Q6a)	22y-40km
	Q6b)	(22*4)-40=48
	402,	$48 \div 4 = 12cm$
	Q7)	3. 14 * 7.5 * 7.5 = 126.625
		7.5 • 2 = 15
13 24 13		15 * 5 = 225
		225 - 176.625 = 48.375
	Q8)	180 - 30 = 150
	Q9)	$1 hour 20 mins = 1\frac{1}{3}h$
Paper a		$1\frac{1}{3}*120 = 160$
		169 + 120 - 50 = 230
	Q10)	$20^3 \le 8000$
		60 * 20 = 1200
C C		$20 * 20 = 400$ $8000 \div 1600 = 5cm$
	Q11)	80 * 2 = 160
Œ		160 - 82 = 78
	_	74 * 3 = 222
G	040)	222 - 78 - 60 = 84
	Q12)	120 + 30 + 100 = 250 $60 + 258 + 250 = 560$
		560 * 2 = 1120
10	Q13)	2 1 2
Ofe		$\frac{1}{3}m + \frac{1}{5}w = 224$
		$\frac{1}{5}m + \frac{1}{5}w = 112$
		$3 \cdot 3 \cdot$
		$\frac{3}{3}m + \frac{3}{5}w = 112 * 3 = 336$ $M + W = 400$
		$\frac{2}{5}w = 400 - 336 = 65$
	4	$\frac{1}{5}$ $w = 65 \div 2 = 32$
		$\frac{5}{5}w = 32 * 5 = 160$
	Q14a)	$180 - 90 - 36 = 54^{\circ}$
	Q14b)	$(36+0) \div 2 = 13^{\circ}$
	045 \	$180 - 90 - 13 = 77^{\circ}$
	Q15a)	3:5
		2u = 28
		1u=14
		5 * 14 = 70 $70 + 10 = 80$
	50,000 20000 min	

Q15b)	70 * 3 = 210
	14 * 3 = 42
Į.	8% increase = 3.20
	10% increase = 4.20
-	42 + 4 = 46
	210 - 46 - 80 = 84
	Type equation here.
Q16a)	$\frac{1}{7} * 3.14 * 8 * 8 = 50.24$
	4 3.14 * 6 * 6 = 50.24
	8 * 3 = 24
[$24 \div 2 = 12$
	12 * 12 * 3.14 = 452.16
	50.24*6=301.44
	$452.16 - 301.44 = 15072cm^2$
Q16b)	3.14 * 24 = 75.36
ļ	1 . 2.14 . 16 . 12.56
İ	$\frac{1}{4}$ * 3.14 * 16 = 12.56
	12.26*6=75.36
	75.36 * 2 = 150.72
	150.72 + 8 + 8 = 166.72cm
Q17	15% * 600 = 90
	90 = 5%
	100% = 1800
	600 10000 - 33 00
	$\frac{1800}{1800} * 100\% = 33\frac{1}{3}\%$