		* 4*	2.57			A	
Index No.]-	. <u> </u>		

PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION, 2024

PAPER 1 (BOOKLET A)

Additional materials: Optical Answer Sheet (OAS) Total Time For Booklets A & B: 1 hour

Name:	_ (
Class : Primary 6 /		
Math Teacher		_
Date : 20 August 2024		

INSTRUCTIONS TO CANDIDATES

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL THE QUESTIONS.

SHADE YOUR ANSWERS IN THE OPTICAL ANSWER SHEET (OAS) PROVIDED.

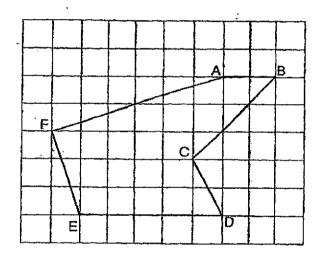
YOU ARE NOT ALLOWED TO USE A CALCULATOR.

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). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

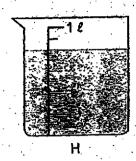
- 1. Find the value of 4 hundreds + 5 tenths + 6 thousandths.
 - (1) 450.006
 - (2) 400.506
 - (3) 400.560
 - (4) 400.056
- 2. Which pair of lines in the square grid is perpendicular?



- (1) AB and ED
- (2) AF and FE
- (3) BC and CD
- (4) DC and FE

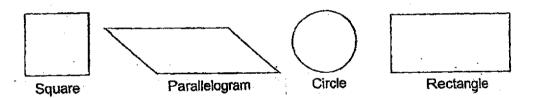
3. The beakers below contain some water.





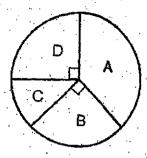
What is the total volume of water in both beakers?

- (1) 450 ml
- (2) 530 ml
- (3) 1 £ 250 ml
- (4) 1 £ 300 mi
- 4. How many of the following figures have exactly two lines of symmetry?

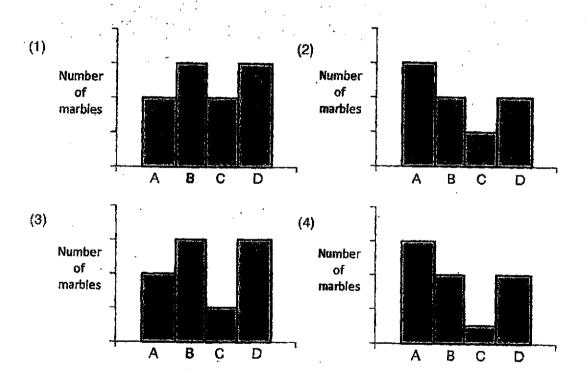


- (1) 1
- (2) 2
- (3) 3
- (4) 4
- 5. There are 40 students in a class. 16 of them are Chinese and the rest are Malays. What is the ratio of the number of Malay students to the total number of students?
 - ..(1) 3:2
 - (2) 3:5
 - (3) 2:3
 - (4) 5:3

6. The pie graph shows the number of marbles in four boxes labelled A, B, C and D.



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



- 7. A machine can fill up 45 bottles in 2 minutes. At this rate, how many bottles can the machine fill up in 1 hour?
 - (1) 90
 - (2) 1350
 - (3) 2250
 - (4) 5400

8. What is the value of 30 ÷ 6000?

- (1) 20
- (2) 200
- (3) 0.05
- (4) 0.005

Arrange these volumes from the smallest to the greatest.

_			
$4\frac{3}{5}\ell$,	4 £ 305 ml	•	4.35

	Smallest				Greatest
(1)	4.35 ℓ	,	4 / 305 mi	,	$4\frac{3}{5}\ell$
(2)	4 £ 305 mi		4.35 ℓ		$4\frac{3}{5}\ell$
(3)	4 £ 305 ml		43 £	,	4.35 £
(4)	4 3 ℓ	ž.	4.35 ℓ	J .	4 £ 305 ml

10. The quarter circle has a radius of 20 cm.



What is the perimeter of the quarter circle? Take $\pi = 3.14$

- (1) 31.4 cm
- (2) 55.7 cm
- (3) 71.4 cm
- (4) 125.6 cm

11.	At 12 noon, Alan and Jacob ran along a 9-km track in opposite direction. Alan met
	Jacob when Alan completed 4 km of the track. Jacob took 45 minutes to complete
	the entire track. At what time did they meet?

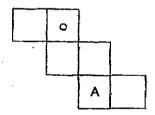
- (1) 12.20 p.m.
- (2) 12.24 p.m.
- (3) 12.25 p.m.
- (4) 12.30 p.m.
- 12. The figure below shows the different views of a same cube. A different shape is printed on each face of the cube.







The net of the cube is shown below. Only the shape on one of the faces of the cube is shown on the net.

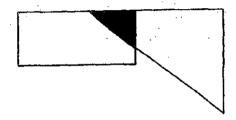


Which of the following shape is represented by the letter A?

- (1) 🕱
- (2)
- (3) ③
- (4)

- 13. A number when divided by 20 gives a remainder of 9.

 Which of the following can be added to the number to change it to a multiple of 5?
 - (1)
 - (2) 5
 - (3) 3
 - (4) 4
- The figure below is made up of a rectangle and a triangle. $\frac{2}{9}$ of the rectangle and $\frac{1}{5}$ of the triangle is shaded.



What fraction of the figure is shaded?

- $(1) \frac{4}{17}$
- (2) $\frac{4}{19}$
- (3) $\frac{2}{17}$
- $(4) \frac{2}{19}$
- 15. There were some children at a carnival. $\frac{1}{3}$ of the boys and $\frac{1}{4}$ of the girls went for a ride. $\frac{3}{8}$ of the children who went for the ride were girls. What fraction of the children went for the ride?
 - (1) $\frac{1}{9}$
 - (2) $\frac{8}{27}$
 - (3) $\frac{7}{12}$
 - $(4) \frac{19}{27}$

index	
180, <u>[] </u>	moex.

PEI CHUN PUBLIC SCHOOL

PRELIMINARY EXAMINATION, 2024

PAPER 1 (BOOKLET B)

Total Time For Booklets A & B: 1 hour

Name:	()
Class : Primary 6 /		_
Math Teacher:		•
Date : 20 August 2024		

INSTRUCTIONS TO CANDIDATES

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

SHOW YOUR WORKING CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING. WRITE YOUR ANSWERS IN THIS BOOKLET.

USE A DARK BLUE OR BLACK BALLPOINT PEN TO WRITE YOUR ANSWERS IN THE SPACE PROVIDED FOR EACH QUESTION.

DO NOT USE CORRECTION FLUID/TAPE OR HIGHLIGHTERS.

YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

or qu	uestions which require units, give			e spaces p	I OVILLEO.		in this spa
	destrous Millor redails come and	your answers in	n the units	stated.	(5 ma	irks)	
				· · · · · · · · · · · · · · · · · · ·	· · · · · ·		
ô.	Express 1.7 as a percentage.			•	•		
			`.		. <u>.</u>		
				* *		• • • •	
			. :	•	·		
		•			`,		
		An	swer:		<u> </u>	%	
		·					
	3		•	•	•		
7.	Find the value of $\frac{3}{8} \div 6$.	₹.		• .			ŀ
	Give your answer as a fraction	in the simplest f	om.				
			-				
	•					-	
						•	
		•	Answer: .				
8.			rina Mins		4 - 4 - 1 - -		. 1
	Indra had $\frac{3}{4}$ kg of white rice as Indra had? Give your answer	nd - kg of brown as a mixed num	ber in the	simplest fo	total mas rm.	s of rice	
	Indra had - kg of white nice an Indra had? Give your answer	$\frac{1}{5}$ kg of brown as a mixed number	ber in the	at was the simplest fo	total mas	s of rice	
	Indra had - kg of white nice an Indra had? Give your answer	$\frac{1}{5}$ kg of brown as a mixed num!	ber in the	it was tne simplest fo	total mas	s of rice	
	Indra had - kg of white nice an Indra had? Give your answer	$\frac{1}{5}$ kg of brown as a mixed num!	ber in the	it was the simplest fo	total mas	s of rice	
	Indra had - kg of white nice an Indra had? Give your answer	$\frac{1}{5}$ kg of brown as a mixed num!	ber in the	at was the	total mas	s of rice	
	Indra had - kg of white nice an Indra had? Give your answer	as a mixed num!	ber in the	simplest fo	om.		
	Indra had - kg of white nice an Indra had? Give your answer	as a mixed num!	ber in the	simplest fo	om.		
9.	Indra had -kg of white nice at Indra had? Give your answer A pen costs \$0.45. What is #	as a mixed num!	Answer:	simplest fo	om.		
9.	Indra had? Give your answer	as a mixed num!	Answer:	simplest fo	om.		
 9.	Indra had? Give your answer	as a mixed num!	Answer:	simplest fo	om.		
9.	Indra had? Give your answer	as a mixed num!	Answer:	simplest fo	om.		
9.	Indra had? Give your answer	as a mixed num!	Answer:	simplest fo	om.		
9.	Indra had? Give your answer	as a mixed num!	Answer:	simplest fo	om.		
9.	Indra had? Give your answer	as a mixed num!	Answer:	simplest fo	om.		
9.	Indra had? Give your answer	as a mixed num!	Answer:	simplest fo	orm.	kg	

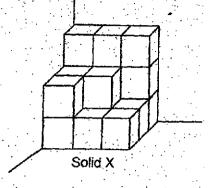
Page 1 of 7

MA / P6 / Prelim / 2024

(Go on to the next page)

Some unit cubes are used to form Solid X as shown.
 How many unit cubes are used to form Solid X?





Answer:		,
- 4 (417 45)	 	

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. The table below shows the results of a survey.

	Boys	Girls
Number of children who can cycle	27	14
Number of children who cannot cycle	13	26

What fraction of the children can cycle?

Answer:	

22.		A flask was filled with 1.05 Lof water.	250 ml of water	was	poured out	t from the
	. :	flask. How many litres of water was le	eft in the flask?	1.		

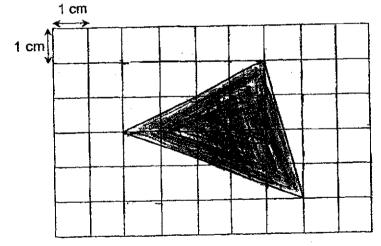
Do not writi in this spac

			•	٠.
Answer:			~	 . 1
Tilono.		_	 	 _ `

23. The average of 3 numbers is 38. One of the numbers is *p*. Find the average of the other two numbers. Leave your answer in terms of *p*.

Answer:	

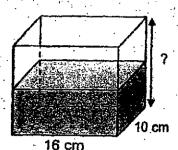
24. The shaded triangle below is drawn on a 1-cm square grid. What is the area of the shaded triangle?



Answer: cm ²	
SCORE	

25. A rectangular tank is 16 cm long and 10 cm wide. It contains 21 of water when it is half full. What is the height of the tank?

Do not writin this spac



	•	
Answer:		cm

26. A tailor makes 8 shirts and 5 blouses. She sews 6 red buttons on each shirt and 4 green buttons on each blouse.

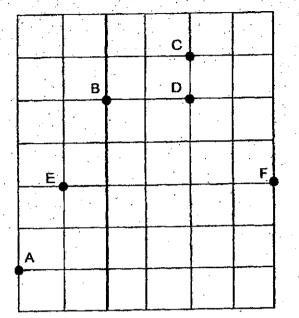
Colour of buttons	Number of buttons in a box	Price per box
Red	5	\$1.35
Green	4	\$2.20

What is the least amount of money she has to pay for the all the red and green buttons she needs?

Answer: \$	
------------	--

27.	ę.	Refer to	the	square	grid	helow	and	answer	the	questions

Do not write in this spac



(a) Which point is south-west of Point D?

Answer: (a)

(b) In which direction is Point B from Point D?

Answer : (b) _____

There are 20 ribbons and 12 strings in a box.

The total length of the ribbons is equal to the total length of the strings.

Each string is 10 cm longer than each ribbon. What is the length of a ribbon?

Answer: _____ cm

29.	Tim had an equal number of red and blue stickers. He gave 51 red stickers and 27 blue stickers to John. He gave the rest of the stickers to Hiram.	Do not wa
	Hiram had $\frac{2}{5}$ as many red stickers as blue stickers.	
	How many stickers did Tim give to Hiram?	
•		
•		· ·
: •		
		*
•		٠
•		
		•
	-	
	·	
	Answer:	
		
	i de la companya de	

Page 6 of 7

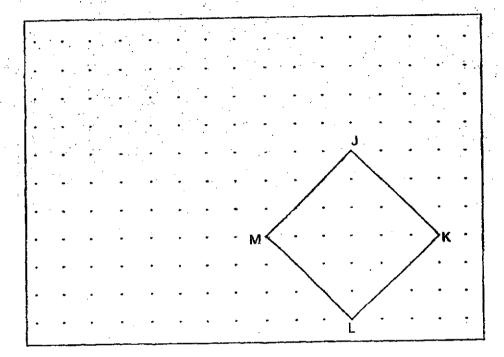
(Go on to the next page)

MA / P6 / Prelim / 2024

30. In the square grid below, a square JKLM has been drawn.

Do not writ in this spac

JM forms one side of a triangle JMA. Complete the drawing of triangle JMA such that the area of JMA is $\frac{1}{3}$ the area of JKLM. Triangle JMA does not overlap with the square JKLM.



End of Paper

K				1 :	
moex	٠.				
No.					
	لنجيب	 <u>. </u>	المستحيا	'	

PEI CHUN PUBLIC SCHOOL

PRELIMINARY EXAMINATION, 2024

MATHEMATICS PAPER 2

Time: 1 h 30 min

Name :	_ ()
Class : Primary 6 /	-	
Math Teacher:		-
Date : 20 August 2024		
Parent's Signature:		

Paper 1 (Booklet A)	20
Paper 1 (Booklet B)	25
Paper 2	55
TOTAL	100

INSTRUCTIONS TO CANDIDATES

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

SHOW YOUR WORKING CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.

WRITE YOUR ANSWERS IN THIS BOOKLET.

USE A DARK BLUE OR BLACK BALLPOINT PEN TO WRITE YOUR ANSWERS IN THE SPACE PROVIDED FOR EACH QUESTION.

DO NOT USE CORRECTION FLUID/TAPE OR HIGHLIGHTERS.

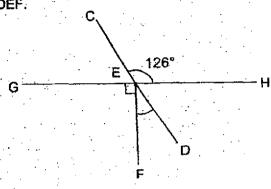
THE USE OF AN APPROVED CALCULATOR IS ALLOWED.

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)

Do not write in this space

CED and GEH are straight lines. ∠CEH = 126°.
 Find ∠DEF.



Answer:	

 In the television guide shown below, one programme leads to another without any break in between.

Start time	Programme
09 30	Cartoon
10 10	News
11 40	Sports
12 30	Music

(a) Ming turned on the television at 11 00. Which programme was being shown then?

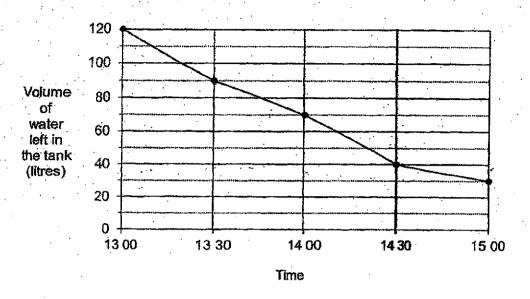
Answer	: (a)	
--------	-------	--

(b) How long did the Sports programme last?

Answer: (b)	n	nin
<u> </u>		

3. A tank was $\frac{5}{7}$ filled with water at 13 00. The line graph shows the volume of water left in the tank over a period of 2 hours.

Do not write in this space



At the end of 2 hours, what fraction of the tank was filled with water? Give your answer in its simplest form.

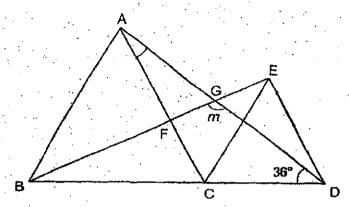
Answer:

SMALL ROOM	MEDIUM ROOM	LARGE ROOM	
HAPPY HOURS \$12 12 p.m. to 7 p.m. per hour	HAPPY HOURS \$14 12 p.m. to 7 p.m. per hour	HAPPY HOURS \$15 12 p.m. to 7 p.m. per hour	
PEAK HOURS \$18 7 p.m. to 10 p.m. per hour	PEAK HOURS \$19 7 p.m. to 10 p.m. per hour	PEAK HOURS \$22 7 p.m. to 10 p.m. per hour	
Jason and four of his fil How much did each of t	ends rented a medium room hem have to pay?	rom 5 p.m. to 8 p.m.	
	•		
	Answer	~ \$	
			ł
At any time, there were	ed a badminton court for 3 he 4 boys playing on the court, did each boy play on the cou- ninutes.		
At any time, there were On average, how long o	4 boys playing on the court. did each boy play on the cou		
At any time, there were On average, how long o	4 boys playing on the court. did each boy play on the cou		
At any time, there were On average, how long of	4 boys playing on the court. did each boy play on the cou		
At any time, there were On average, how long of	4 boys playing on the court. did each boy play on the cou		
At any time, there were On average, how long of	4 boys playing on the court. did each boy play on the cou		
At any time, there were On average, how long o	4 boys playing on the court. did each boy play on the cou		

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)

Do not write in this space

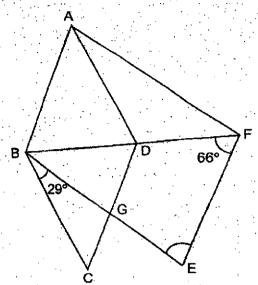
6. Triangle ABC and ECD are equilateral triangles. BCD, AGD and BGE are straight lines. ∠BDA = 36° and ∠DAC = ∠DBE. Find ∠m.



Answer: _____ [3]

ABCD is a rhombus and ABEF is a trapezium. AB is parallel to EF. ∠CBG = 29° and ∠BFE = 66°. BDF is a straight line. Find ∠BEF.

Do not write in this space

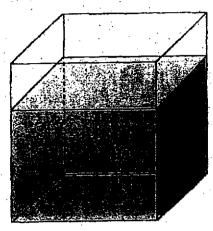


Answer: _____ [3]

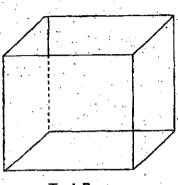
(a)	What is the cost Express your ar	of 1 pen an swer in tem	d 2 rulers in is of <i>m</i> in its	cents? simplest for	m.			Do not wi
			Ansı	wer: (a)	·	[⁻	1)	
							Alle de la companya d	

Tank A and Tank B are two rectangular tanks. Tank A contains some water and Tank B is empty. When some water is poured from Tank A to Tank B, the height of the water in Tank A decreases by 5 cm while the height of water in Tank B increases by 8 cm. The base area of Tank A is 15 cm² greater than the base area of Tank B. What is the volume of water that is poured from Tank A into Tank B?

Do not write in this space



Tank A



Tank B

Answer: ______[3

10.	into G numbi	amp, there is an equal number of boys and girls. The children are grouped troup A and Group B. In Group A, the ratio of the number of boys to the error girls is 1:3. In Group B, the ratio of the number of boys to the number is 5:2.	Do not write in this space
	(a)	What is the ratio of the number of children in Group A to the number of children in Group B?	
		Answer: (a)[1]	
	(b)	There are a total of 2574 children at the camp. How many boys are there in Group B?	
		Answer: (b)[3]	

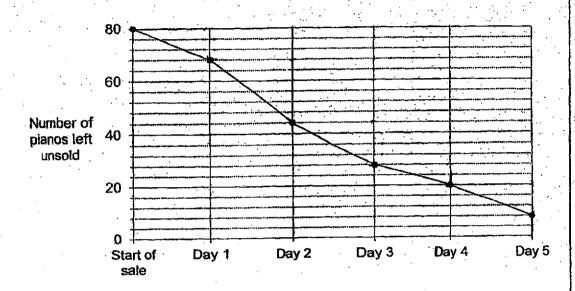
Page 8 of 15

(Go on to the next page)

MA / P6 / Pretim / 2024

11.	A musical store offered 80 planos at a 25% discount during a 5-day sale.	
•••••	The line graph shows the number of planos left unsold at the end of each of	day

Do not write in this space



(a) What percentage of the pianos were sold in the first two days of the sale?

Answer: (a) _____[1]

(b) During the sale, the discounted price of the piano was \$735. After the sale, the remaining pianos were sold without discount. What was the total amount of money collected from selling all the 80 pianos?

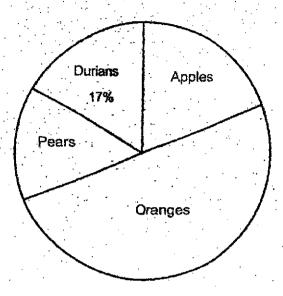
Answer: (b) _____[3]

12. The pie chart shows the different types of fruit sold at a stall last month.

The shop sold 800 fruits in total. Half of the fruits sold were oranges.

The shop sold 40 more apples than pears.

Do not write in this space



(a) How many durians did the shop sell?

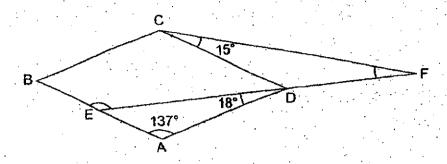
Answer: (a) _____[1]

(b) What percentage of the fruits sold last month were pears?

Answer: (b) _____[3]

13. In the figure below, ABCD is a parallelogram. E is a point on AB and EDF is a straight line. ∠BAD = 137°, ∠EDA = 18° and ∠DCF = 15°

Do not write in this space



(a) Find ∠BED.

Answer: (a) _____[2]

(b) Find ∠CFD.

Answer: (b) _____[2]

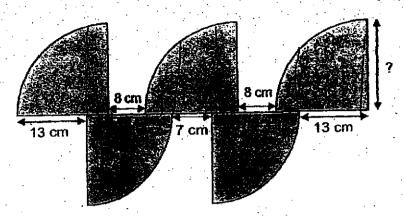
7 simi	tar skirts. The length of the lace use of the lace used for 3 skirts.	ce to make d for 5 blo	uses was the same as	the	in this space
tenga	of the face used for 3 skins.				
(a)	How many skirts can he make with 15 similar blouses?	the same	length of lace used for	r	
•				•	
					.* .
• • • • • • • • • • • • • • • • • • • •					
		ing ang Piliping Tagan Tagan Sangaran		• .	
					,
		•		•	
		Answer:	(a)	_ [1]	
			F		
(b)	What is the greatest number of skir	ts he can r	make with $\frac{5}{6}$ of the rem	aining	
	lace?		v		
	•				
•					
				İ	
				ŀ	
•					
•					
				į	
		Answer:	(b)	[3]	
					
			•		
	,				
MA / P6 / Prefim /	2024 Page 12 of 1				

15.	Figure X and Figure Y below is made up of identical right-angled triangles. The perimeter of Figure X is 46 cm. The perimeter of Figure Y is 96 cm.		Do not write in this space
	The length of AB is 17 cm.		
	Figure X Figure Y		
	(a) What is the length of CD?		·
	Answer: (a)	[1]	
	(b) What is the area of 1 right-angled triangle?		
	Answer: (b)	[3]	

		are 25 more blue beads than orange beads. There were 289 red beads.	Do not write in this space
	(a)	How many blue beads are there altogether?	
	•		
· ;			
	. :		
	•		
		·	
		Answer: (a)[2]	
		Answer: (a)[2]	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
,	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy?	
	(b)	increased to 64%. How many blue beads did he buy?	
	(b)	After Joseph bought more blue beads, the percentage of blue beads increased to 64%. How many blue beads did he buy? Answer: (b)	
	(b)	increased to 64%. How many blue beads did he buy?	

Do not write in this space

17. The figure is made up of 5 identical quarter circles.



(a) Find the radius of a quarter circle.

Answer:	(a)	 [2	.]

(b) Find the perimeter of the figure. Take $\pi = 3.14$. Round your answer to the nearest 1 decimal place.

		101
Answer:	(p)	 [2]

SCHOOL

: PEI CHUN PUBLIC SCHOOL

LEVEL

: PRIMARY 6

SUBJECT

: MATHEMATICS

TERM

: 2024 PRELIMINARY EXAMINATION

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	3	1	2	2	2	4	2	3
Q11	Q12	Q13	Q14	Q15					
3	4	1	3	2					

YEAR : 2024

LEVEL : PRIMARY 6

SCHOOL: PEI CHUN PUBLIC SCHOOL

SUBJECT: MATHEMATICS

TERM : PRELIMS

BOOKLET B Q16) 170 %

Q17)
$$\frac{3}{8} \div 6 = \frac{3}{8} \times \frac{1}{6} = \frac{1}{16}$$

Q18)
$$\frac{3}{4} + \frac{4}{5} = 1 \frac{11}{20} \text{ kg}$$

Q19)
$$0.45 \times 80 = $36$$

Q21)
$$\frac{41}{80}$$

Q23)
$$\frac{38 \times 3 - p}{2} = \frac{114 - p}{2}$$

Q24) Area of square =
$$5 \times 4 = 20$$

Area of unshaded area =
$$\frac{1}{2} \times 4 \times 2 + \frac{1}{2} \times 4 \times 1 + \frac{1}{2} \times 5 \times 2 = 11$$

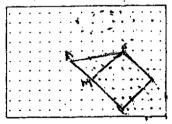
Area of shaded area =
$$20 - 11 = 9cm^2$$

Q26) Box of Red Button
$$\rightarrow$$
 48 ÷ 5 = 8 R 3 \approx 9
Box of Green Button \rightarrow 20 ÷ 4 = 5
10 x 1.35 + 5 x 2.20 = \$24.50

Q29) 3units
$$\Rightarrow 51 - 27 = 24$$

7units $\Rightarrow (24 \div 3) \times 7 = 56$

Q30) $\triangle AJM \rightarrow 12 cm^2$



PAPER 2

Q1)
$$\angle DEF = 126 - 90 = 36$$
°

- Q2) a) News b) 50 min
- Q3) $\frac{30}{120} \times \frac{5}{7} = \frac{1}{4} \times \frac{5}{7} = \frac{5}{28}$
- Q4) $(14 \times 2) + 19 = 47$ $47 \div 5 = 9.40
- Q5) $\frac{3\times4}{5}$ h = 2.4ft = 4.44 min
- Q6) $\angle ABC = 60$ $\angle BAD = 180 - 36 - 60 = 84$ $\angle DAC = \angle DBE = 84 - 60 = 24$ $\angle m = 180 - 36 - 24 = 120^{\circ}$
- Q7) $\angle ABF = \angle BFE = \angle FBC$ $\angle FBE = 66 - 29 = 37$ $\angle BEF = 180 - 37 - 66 = 77^{\circ}$
- Q8) a) (3m + 70)¢ b) 3(80¢) + 70¢ = 310¢ 310¢ - 15¢ = 295¢ = \$2.95
- Q9) Difference $\rightarrow 8-5=3$ Volume $\rightarrow 15 \times 5=75$ (cm) Difference $\rightarrow 75 \div 3=25$ Volume poured $\rightarrow 25 \times 8=200cm^3$

Q10) a)

Grou	рΑ	Group B		
B:G	Diff	B:G	Diff	
1:3	2u	5:2	3u	
3:9.	6 u	10:4	6u	

- b) Total unit > 12 + 14 = 36 1 unit > 2574 ÷ 26 = 99
 - 10 unit → 990

Q11) a)
$$\frac{36}{80}$$
 x 100% = 45%

$$(735 \times 72) + (8 \times 980) = 52920 + 7840 = $60760$$

b) (
$$800 - 400 - 136 - 40$$
) ÷ 2 = 112

$$\frac{112}{800}$$
 x 100% = 14%

Q13) a)
$$\angle DEA = 180 - 155 = 25$$

b)
$$\angle GDA = 180 - 137 = 43$$

Q14) a)
$$5b = 3s$$
, $15b = 9 skirts$

$$5u \rightarrow (16 \div 8) \times 5 = 10$$

Q15) a)
$$91 - 17 \times 4 = 28$$

b)
$$46 \div 2 = 23$$

$$23 = H + B$$

$$30 = H$$

$$H = 15$$

$$B = 8$$

Area of triangle =
$$\frac{1}{2} \times 8 \times 15 = 60 \text{ cm}^2$$

Q16) a)
$$B \rightarrow 2.8U$$
, $O \rightarrow 2.8U - 25$, $R = 289$

$$289 - 25 = 264$$

b) No. of red and orange
$$\rightarrow$$
 29 x 9 + 289 = 438

64% of beads
$$\rightarrow$$
 12 x 64 = 768

b) Curved line
$$\rightarrow \frac{5}{4} \times 3.14 \times 17 \times 2 = 133.45$$

Straight line
$$\rightarrow$$
 17 x 5 + 13 x 2 + 7 + 8 x 2 = 134