PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION, 2016

MATHEMATICS PAPER 1

(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS) Total Time For Booklets A & B: 50 min

Name	:			 	. ([)
Class	:	Primary ()					
:			1	 :: :			•	: .

INSTRUCTIONS TO CANDIDATES

Date : 3 August 2016

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.

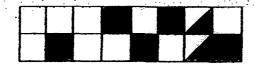
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

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. What is the value of the digit 6 in 756 042?
 - (1) 6
 - (2) 60
 - (3) 600
 - (4) 6000
- 2. What is the value of 500 ÷ 1000?
 - (1) 0.2
 - (2) 2
 - (3) 0.5
 - (4) 0.05
- 3. The figure below is made up of unit squares.

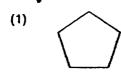


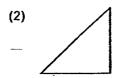
What fraction of the figure is shaded?

- $(1) \qquad \frac{3}{8}$
- (2) $\frac{5}{8}$
- (3) $\frac{3}{5}$
 - (4) $\frac{7}{16}$

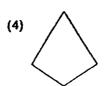
- Which of the following fractions is closest to $\frac{1}{2}$? 4. $\frac{1}{3}$ (1) (2) (3) (4) 4 ones, 8 tenths and 6 thousandths is ______ **5**. (1) 0.486 (2) 4.086 (3) 4.806 4.86 _ (4)
- 6. Round off 3.465 to 2 decimal places.
 - (1) 3.50
 - (2) 3.47
 - (3) 3.46
 - (4) 3.40
- 7. 6090 m is the same as _____.
 - (1) 6 km 9 m
 - (2) 6 km 90 m
- (3) 60 km 9 m
 - (4) 60 km 90 m

Which of the following figures has a pair of parallel lines? 8.







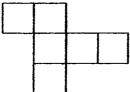


- 9. There are 40 pupils in a class. 30% of them are boys. How many girls are there in the class?
 - (1) 10
 - (2) 12
 - (3) 18
 - (4) 28
- 10. The figure below shows a cube.

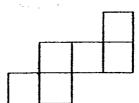


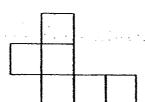
Which of the following is not a net of the cube?

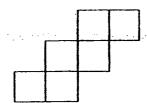
(1)



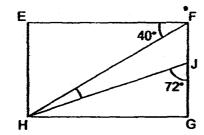








11. In the figure below, EFGH is a rectangle.



Find ∠FHJ.

- (1) 18*
- (2) 22°
- (3) 27°
- (4) 40°
- 12. Jamie used four letters A, B, C and D to form a pattern. The first 20 letters are shown below.

AB	C	D	С	В	Α	В	С	D	С	В	Α	В	C	D	С	В	A					
1 st																		20)gh			292th
1																						

Which letter is in the 292th position?

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

13. The table below shows the scores of Mike and Norman for three quizzes.

	· Mike	Norman
Quiz 1	80	70
Quiz 2	80	90
Quiz 3	?	80

Norman's average score for the three quizzes was 5 more than Mike's average score for the three quizzes. What was Mike's score for Quiz 3?

- (1) 65
- (2) 75
- (3) 85
- (4) 95

14. Jill is 4y years old. Mr Lam is now 5 times as old as Jill. How many years old will Mr Lam be when Jill is 30 years old?

- (1) 30 + 16y
- (2) 30 16y
- (3) 30 + 20y
- (4) 30 + 9y

15. Mr Lim bought an equal number of red apples and green apples. He put all the apples in 2 empty boxes, Box A and Box B.

The number of red apples in Box A to the number of red apples in Box B was in the ratio 3:1. The ratio of the number of green apples in Box A to the number of green apples in Box B was 1:5. The total number of apples in Box A was the same as that in Box B.

What was the ratio of the number of red apples to the number of green apples in Box B?

- (1) 1:5
- (2) 2:5
- (3) 3:10
- (4) 6:1

index No.

PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION, 2016

PAPER 1

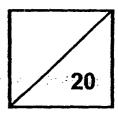
(BOOKLET B)

Total Time For Booklets A & B: 50 min

Name	-	-
1401116	•	

Class: Primary 6

Date : 3 August 2016



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.

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

_	Use all the digits 3, 5, 4, and 8 to form the largest four-digit even number.	
6.	Use all the digits 3, 5, 4, and 6 to form the largest four-digit even manifes.	
	Answer:	
	Find the value of 7 × 2 – (8 + 4) + 3.	
	Answer:	
-	Find the value of $\frac{3}{8} + \frac{5}{6}$.	
	restativa program i series di la companiero del series de la programa de la companiero del series de la companiero de la comp	••
	Answer:	
- -		
	I am an odd number greater than 3. I am a multiple of 3 and a factor of 36. What am 1?	
	•	
		11.
	Answer:	
		<u> </u>
	SCORE	1

Page 1 of 6

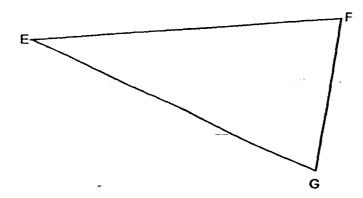
(Go on to the next page)

MA/P6/PL/2016

20.	Find	the	value	of	0.29	×	30

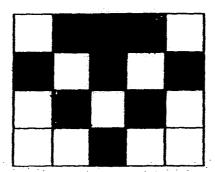
Answer:	

21. Measure and write down the size of ∠EFG.



Answer		
ALISMES		

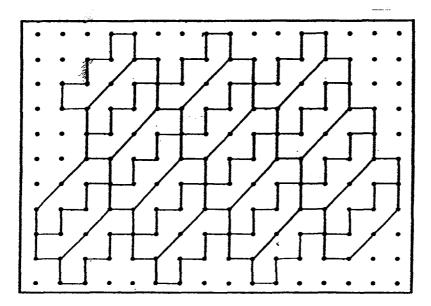
22. The figure below is made up of squares. Shade two more squares so that the figure has exactly a line of symmetry.



SCORE	
	· .

The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided in the box.

Do not in this



24. Find the value of $5 + \frac{3b}{2}$ when b = 6.

Answer: ..

25. All wanted to watch a movie which started at 16 30. He took 30 minutes to travel from his house to the cinema. He arrived at the cinema 10 minutes before the movie started. What time did Ali leave his house?

Give your answer using the 24-hour clock.

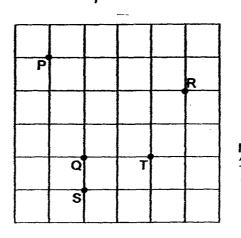
Answer:

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question 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

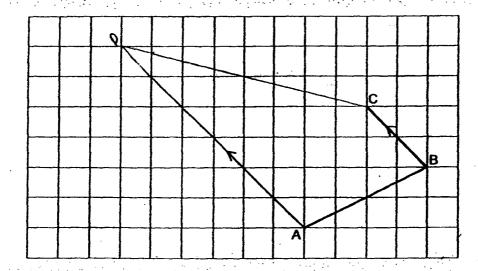
26.



Refer to the square grid above and fill in the blanks with P, Q, R, S or T.

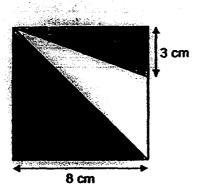
- (a) Point _____ is west of point _____
- (b) Point _____ is north-east of point _____

27. AB and BC form two sides of a trapezium ABCD. AD is parallel to BC. AD is three times the length of BC. Complete the drawing of the trapezium ABCD.



SCORE		
	1	

28. Find the total area of the shaded parts of the square shown below.



Inswer:		cm ²
u 1377Ci.	 	 w.,

29. The figure shows a rectangular glass box partly filled with unit cubes. How many more cubes have to be put in the box so that it is filled completely?



Answer:	
---------	--

SCORE

Do not write in this space

b	uy one more at ustomer can bu	half the price. Why with \$100?	at is the greatest	number of bun	s that a—	in this spa
•		•				
						
						_
					•	
		g t				
			• •			
			•			
	5 1	m + 1 1 1		ja errana errana.	•	
			•			
				•		
			• • •	В		
				.*		
			Answei			
		End	of Paper			
et by : Mrs	Agnes Chua, Mrs.	Jaslene Tan, Mr Stank		Beng Chye	SCORE	
1A/P6/PL	. / 2016	Pag	e 6 of 6	•		ل _{ــــــا}
1						

Index No.

PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION, 2016

MATHEMATICS PAPER 2

Time: 1 h 40 min

Name	:		()
Class	_	Driman C		

Class : Primary 6

Date: 3 August 2016

Parent's Signature:

Paper 1 (Booklet A)	20
Paper 1 (Booklet B)	20
Paper 2	60
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.

YOU ARE ALLOWED TO USE A CALCULATOR.

	sed to buy the T-shirt?	nd a wallet. The T his savings was us	o buy a T-st it percentag	m used all his saving wallet cost \$144. W	Sam the w
	% ··	Answer:			
	-				
1	is 252 m³.			e base area of a recta s half-filled with water	
		1	1		
					.•
					.•
					.•
					••
					••

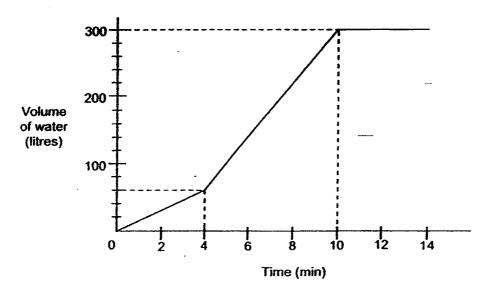
Answer:

		
	•	
		·
	Answer: m	
	Alswei ni	
******	3	
	Ted poured out $1\frac{3}{4}$ t of water from a tank and put back another $\frac{2}{5}$ t. After that,	-
	there was 6 t of water in the tank. How much water was there in the tank at first?	
	general og alleg i han en greger begrever skaller begre ett heket alle beskelle blever.	
		:
		:
	-	
		• • • •
	Answer: t	
	SCORE	

5. Raj filled a tank with water using two taps. He turned on Tap A first and after 4 minutes, he also turned on Tap B. Both taps were turned off at the same time when the tank was completely filled without overflowing.

Do no in this

The graph below shows the amount of water in the tank over 14 minutes.



In one minute, how many litres of water flowed from Tap B?

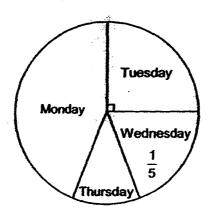
Answer:

arly and write your a hown in brackets [at the end of each	h in this space
5. If they start savin 210 more than Air?	ng on the same day,	
	Alex	-
	•	
	,	
i tipa este e	garan di dipa	
1 5		
oleo w petro diseri		
Answer:	[3]	
	SCORE	
	Hown in brackets [15. If they start saving 210 more than Air?	

7. A ba	aker baked some cookies on Monday. He sold $\frac{3}{7}$ of them on Tuesday and $\frac{1}{2}$	Do not writ
	ne rest on Wednesday.	
(a)	What fraction of the cookies were left?	
(b)	The baker baked another 732 cookies on Thursday and then he had twice as many cookies as he had on Monday. How many cookies did he bake on Monday?	
	·	
	·	
	and the professional contraction of the profession of the contraction	
		•
	Answer: (a)[1]	
	(b)[2]	
	SCORE	
1P61PL12	2016 Page 5 of 16 (Go on to the next page)	

8. A school conducted checks on its Primary 1 pupils' eyesight from Monday to Thursday. Each of them had their eyes checked on one of the four days. There were 200 Primary 1 pupils altogether. The pie chart represents the number of pupils that were checked on each day.

Do not write in this space

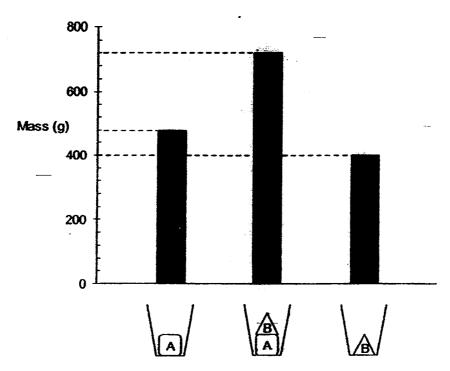


- (a) How many Primary 1 pupils had their eyes checked on Wednesday?
- (b) 40% of the Primary 1 pupils had their eyes checked on Monday. How many Primary 1 pupils had their eyes checked on Thursday?

Answer:	(a)	[2]	
---------	-----	-----	--

9. The graph below shows the mass of a cup when different combinations of objects A and B are placed in the cup.

Do not in this :



What is the mass of the cup when it is empty?

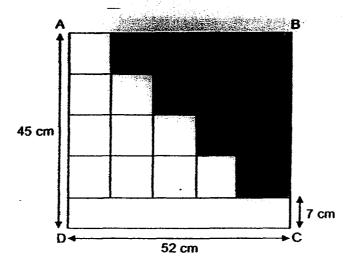
Answer,_____[3

10. Mr Pel mixed	h mixed 3.75 kg of white rice into as many packe	e rice with 7.5 kg ets of 40 g each	of brown rice as possible.	. He packed	the	Do not write in this space
(a)	How many such packe	ets did he get?			•	
(b)	What was the mass of		nixed rice?			
			e ferritis de la companya de la com La companya de la co			
	v."		· }			
	·					
						
				• .	,	
				,		
						-
	Andrew Contracts	a system of t	to see growing of	es, esta		
						· :
			-			
		Αņ			_ [3]	
			(b)		_ [1]	
			,,		_ (7	
		. •		•	SCORE	
MA/P6/PL/201	6	Page 8 of 16		(Go on to the n	ext page)	

11. There are 10 identical squares and a small rectangle in rectangle ABCD.

Do not writ in this spac

- (a) What is the perimeter of the shaded part?
- (b) What is the area of the shaded part?



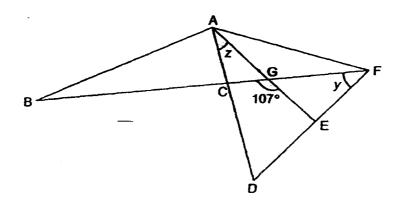
Answer: (a) _____[3]

(b) _____[2]

12. In the figure below, ADF is an equilateral triangle. BCF and AGE are straight lines.

Do not write in this space

Find the value of $\angle y + \angle z$



Answer: _____[4]

13. In a ga	me, Rene scored 10 times as many points as Shaun. Shaun scored 10 as many points as Tom. Shaun scored 65.16 points more than Tom.	Do not with in this space
(a)	How many more points did Rene score than Shaun?	
(b)	Find the total points scored by Rene, Shaun and Tom.	
	· · · · · · · · · · · · · · · · · · ·	
	•	
	. .	
	en territorio de la companio de la titologica de la companio de la companio de la companio de la companio de l La companio de la co	
·. ·	•	
·	Answer: (a)[2]	
	(b)[2]	
		f 1
A/P6/PL/20	SCORE 11 of 16 (Go on to the next page)	

11.0	o iog	nd Sid started to jog of when Sid completed to ogging speeds did not	he 8 km. 10 r	ninutes later, Ro	by completed th	e 8 km.	Do not write in this space
(a)	How long did Roy tak	ce to complete	the track?			
. (b)	What was Sid's joggi	ng speed in k	m/h?			
• .							
		-					
					•		
•. • •	<i>1 5 7 .</i>	androne exercis	• ; .			.* 2	* • . · · · · · ;
							• B
	•						
.		,					
						ł	
				(b) _		[2]	
						ا ا	
WA/P6/PL			Page 12 of 16	·.	(Go on to the r	SCORE	
		7	rave 1/01 lt	D	JUAN ON TO STORY	MAL USUD)	

. . .

15.	At a cake shop, 2 large muffins were sold at \$9 and 7 small muffins at \$12. Jim bought some large muffins and Kaiming bought some small muffins from the shop. They spent the same amount of money but Kaiming bought 156 more muffins than Jim. How much money did Jim spend?	Do not write in this space
		-
	•	
	·	
	·	
	organistra errandi. Si signerez oran en en en el al arten en e	;
	and the first of the entire of the entire of the state of the first of the engage electronic properties and the	
	Answer: [4]	•
		 7
	SCORE	
IA/P6	6/PL/2016 Page 13 of 16 (Go on to the next page)	

- 5	of the number of	WINNER IO	O ROBINS OF		. / HOUT SCIE	3 3
t	he ducks and $\frac{2}{3}$	of the goats	, he had 457 a	nimals left.		****
	3 low many goats			elija je je kompleta i kompleta i Nasili kompleta i komp		wa n i
	,			hwa ka sa	F NAME OF STREET	haif
			* * *	garante estador de la composição de la c	e leagh lead and	
		ų. V			31.5	
		•				
				· ·		
	•					
•			1111111111111			* * * * * * * * * * * * * * * * * * *
			••	<i>:</i> .	, B	
						•
				-		

SCORE

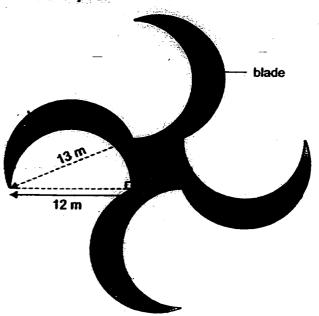
[4]

Do not write in this space

Do not write in this space

- 17. The figure below is made up of a square and four identical blades. Each blade is formed by two different semicircles.
 - (a) What is the perimeter of the figure?
 - (b) What is the area of one blade?
 Correct your answer to 1 decimal place.

(Take $\pi = 3.14$)



Answer: (a) [2

18.	Each participant paid \$25 to attend a workshop. On Saturday, the number of female participants was 130 fewer than the number of male participants. On Sunday, the number of male participants decreased by 20% while the number of female participants increased by 20%. There were 574 participants on Sunday. Find the total amount of money paid by all the participants on both days.	Do not in this sp
		,
	•	
	. .	
:		
-		
	ela nel legge e la completa de la c	
•	6	
	Answer: [4]	
	End of Paper	
1	Mrs Agnes Chua, Mrs Jaslene Tan, Mr Stanley Soh and Mr Teng Beng Chye	

PRELIMINARY EXAM PAPER 2016

SCHOOL : PEI CHUN PRIMARY SCHOOL

SUBJECT : MATHEMATICS PAPER 1

TERM : PRELIMINARY EXAMINATION 2016

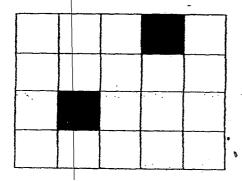
Booklet A

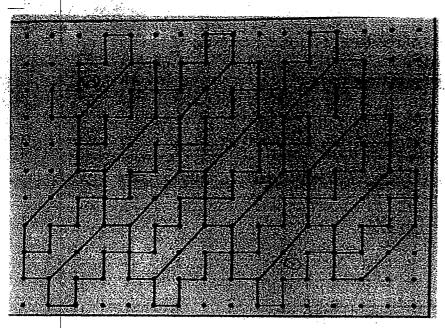
					4 (1)		- Y	
Q1	Q2	Q3	Q4	Q 5	Q6	Q7	Q8	Q9 Q10
4	3	1	4	3	2	2	3	4 3
Q11	Q12	Q13	Q14	Q15		•	*************************************	·
2	4	1		5	-			

Booklet B

Q16	Q17	Q18	Q19	Q20	Q21
8534	10	9/20	9	8.7	77

Q22.





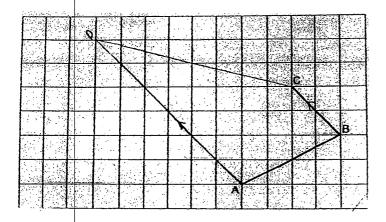
Q24. 14

Q25. 1550

Q26(a) Point Q is west of point T.

(b) Point R is north-east of point S.

Q27.



Q28. 44cm²

Q29. 53 cubes

Groups
$$\longrightarrow$$
 100 \div 6 = 16R4

$$4 \div 0.8 = 5$$

Answer: 133 buns

Paper 2 (Workings Including)

Q1. T shirt
$$\frac{36}{144+36}$$
 X 100 = 20

Answer: 20%

Q2. Height
$$\longrightarrow$$
 252 \div 36 = 7
Height of water \longrightarrow 7 \div 2 = 3.5

Answer: 3.50m

Q3. Spaces
$$\longrightarrow$$
 12-1=11
Length of pathway \longrightarrow 11 x 2.5 = 27.5

in the control of the

Answer: 27.5m

Q4. At first
$$6 - \frac{2}{5} + 1\frac{3}{4} = 7\frac{7}{20}$$

= 7.35

Answer: 7.35L

1 min,
$$A \rightarrow 60 \div 4 = 15$$

6 min,
$$A \rightarrow 15 \times 6 = 90$$

B, 6 min
$$\rightarrow$$
 300 = 90 = 60 = 150

B, 1 mi
$$->$$
 150 \pm 6 = 25

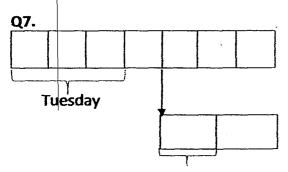
Answer: 25L

Q6.

Small diff
$$\longrightarrow$$
 5 – 2 = 3

take
$$\rightarrow$$
 210 ÷ 3 = 70

Answer: 70 days



Wednesday

a) Left
$$\longrightarrow \frac{1}{2} \times \frac{4}{7} = \frac{2}{7}$$

- b) 12 units --- 732
- ... c) Monday \rightarrow 732 \div 12 x 7 = 427

Answer: (a) $\frac{2}{7}$ (b) 427 cookies

Q8.

(a) Wednesday
$$\rightarrow \frac{1}{5} \times 200 = 40$$

(b) % Thursday
$$\rightarrow 100 - 40 - 25 - 20 = 15$$

Thursday $\rightarrow \frac{15}{100} \times 200 = 30$

Answer: (a) 40 Primary pupils (b) 30 Primary pupils

Q9. B
$$\rightarrow$$
 720 - 480 = 240
Empty cup \rightarrow 400 - 240 = 160
Answer: 160g
Q10(a)
Total \rightarrow 3.75 + 705 = 11.25
11.25kg = 11250g
Packets \rightarrow 11250 \div 40 = 281 $\frac{1}{4}$
= 281 R 10
Answer: (a) 281 packets (b) 10g

Q11(a)

Length of 4 squares
$$\longrightarrow$$
 45 – 7 = 38
Length of square \longrightarrow 38 ÷ 4 = 9.5
52 – 38 = 14
52 – 9.5 = 42.5
Perimeter of shaded \longrightarrow 38 x 2 + 42.5 + 14 + 9.5 x 3 = 161

Q11(b)

Answer: (a) 161cm (b) 1073.5cm²

Q12.

Q13(a) 10U 10U 10U **10**U 10U R S . T 9 parts → 65.16 1 part \rightarrow 65.16 \div 9 = 7.24 90 parts \rightarrow 7.24 x 90 = 651.6 Q13(b) Total → 7.24 x 111 = 803.64 (111 parts) Answer: (a) 651.6 points (b) 803.64 points Q14(a) Roy (10 mins)----1.6 Roy (1 min) ----- $1.6 \div 10 = 0.16$ Roy take $-->8 \div 0.16 = 50$ Q14(b) Sid take --> 50 - 10 = 40

 $Sid(1min) \rightarrow 8 \div 40 = 0.2$ $Sid(1h) \rightarrow 0.2 \times 60 = 12$

Answer: (a) 50mins (b) 12km/h

10U

10U

10U

10U

10U

```
Q15
```

Groups --->
$$156 \div 2 = 78$$

78 groups
$$\longrightarrow$$
 78 x 9 = 702

(big)

$$_$$
 14 large \longrightarrow 9 x 7 = 63

$$Diff \longrightarrow 63 - 24 = 39$$

Kaiming buy
$$\rightarrow$$
 702 \div 39 = 18

Jim spend
$$\Rightarrow$$
 18 x 14/7 x-12 = 432

Answer: \$432

Q16.

$$\frac{2}{3}$$
 of duck + $\frac{3}{3}$ of goat + $\frac{15}{5}$ of children 457 x 3 = 1371

1 unit -
$$320 \div 10 = 32$$

Chicken + duck ---
$$32 \times 8 = 256$$

Answer: 795 goats

Q17(a)

Perimeter of 1 blade $--\frac{1}{2} \times 3.14 \times 12 + \frac{1}{2} \times 3.14 = 39.25$ Perimeter of figure ---- 39.25 x 4 = 157

Q17(b)

Area of triangle $-\frac{1}{2} \times 12 \times 5 = 30$ Total $-\frac{1}{2} \times 3.14 \times 6.5 \times 6.5 + 30 = 96.3325$ Area of semi circle $-\frac{1}{2} \times 3.14 \times 6 \times 6 = 56.52$ Blade $--96.3325 - 56.52 \approx 39.8$

Answer: (a) 157m, (b) 39.8 m^2

Q18

100 un	its	130	М	Sat
100 un	its		F]

Sun --- M: 80 units + 104, F: 120 units. Total: 574

130 x20 / 100 = 26, 130 -26 = 104

200 units --- 574 - 104 = 470 400 units --- 470 x 3 = 940

Participants --- 940 + 1230 + 104 = 1174

Money ---- 1174 x 25 = 29350

Answer: \$29 350