# 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	:		<del></del>	<del></del>	(	
Class	:	Primary ( )	8. ·	t i.		
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 THE QUESTIONS.

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

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

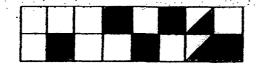
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

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)  $\frac{7}{16}$

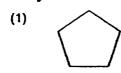
4.	Which	of the following fractions is closest to $\frac{1}{2}$ ?
	(1)	$\frac{1}{3}$
	(2)	<u>3</u> <u>5</u>
	(3)	$\frac{3}{4}$
	(4)	47
<b>5</b> .	4 one:	s, 8 tenths and 6 thousandths is
	(1)	0.486
	(2)	4.086
	(3)	4.806
	-(4)	4.86
6.	Round	off 3.465 to 2 decimal places.
e distribution	(1)	3.50

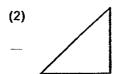
- (2) 3.47
- 3.46
- 3.40 (4)

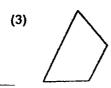
# 7. 6090 m is the same as

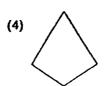
- (1) 6 km 9 m
- (2) 6 km 90 m
- 60 km 9 m (3)
- (4) 60 km 90 m

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







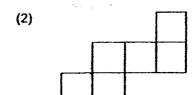


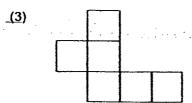
- 9. There are 40 pupils in a class. 30% of them are boys. How many girls are there in the class?
  - (1) 10
  - (2) 12
  - (3) 18
  - (4) 28
- 10. The figure below shows a cube.

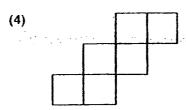


Which of the following is not a net of the cube?

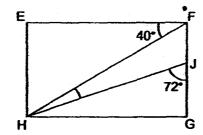
(1)







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.

A B	С	D	С	В	A	В	С	D	С	В	Α	В	С	D	С	В	A	B 20	-	•	•	 . ? 292 <sup>th</sup>
(																						

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

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# PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION, 2016

# MATHEMATICS PAPER 1

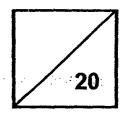
(BOOKLET B)

Total Time For Booklets A & B: 50 min

Name	-				,
1401115	-				

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.

Que For	estions 16 to 25 carry 1 mark each. Write your answers in the spaces provided.  r questions which require units, give your answers in the units stated. (10 marks)	Do not write in this space
16.	Use all the digits 3, 5, 4, and 8 to form the largest four-digit even number.	·
	Answer:	
17.	Find the value of 7 × 2 – (8 + 4) + 3.	
	Answer:	
18.	Find the value of $\frac{3}{8} \div \frac{5}{6}$ .	
,  -	en kur pengan kan kecamangan kan kan kan kan ang pengan kecaman di kanasan di kanasan di kanasan di kanasan di Tanggaran kan kan di kanasan di k	11. stayt s
	Answer:	
19.	I am an odd number greater than 3. I am a multiple of 3 and a factor of 36.  What am I?	
		-
1	Answer:	19 ti - 15.
+	SCORE	

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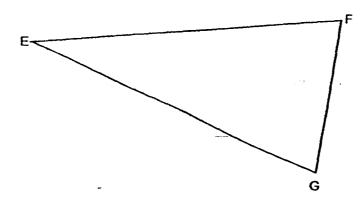
MA/P6/PL/2016

20.	Find	the	value	οf	0.29	×	30
ZU.		n ic	value	v.	U.ZJ	-	$\sim$

Do not write in this space

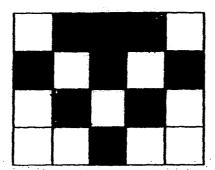
Answer:	
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21. Measure and write down the size of ∠EFG.



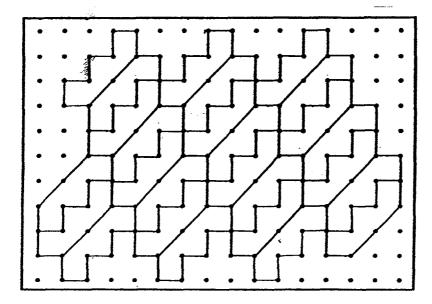
Answer:

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



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: ..

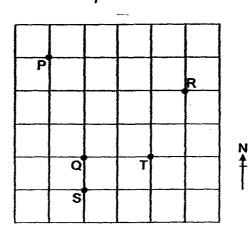
25. Ali wanted to watch a movie which started at 16 30. He took 30 minutes to travel from his house to the cinema. He arrived at the cinema 10 minutes before the movie started. What time did Ali leave his house? Give your answer using the 24-hour clock.

Answer:

Questions 26 to 30 carry 2 marks each. Show your working o	learly 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

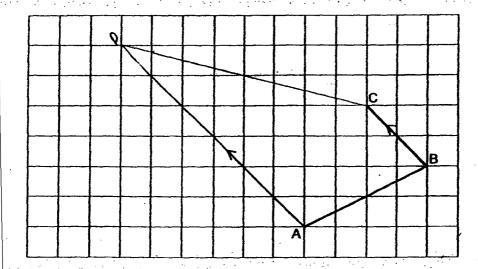
26.



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

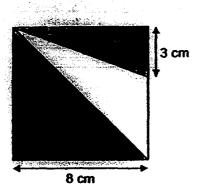
- (a) Point \_\_\_\_\_ is west of point \_\_\_\_\_
- (b) Point \_\_\_\_\_ is north-east of point \_\_\_\_\_

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.



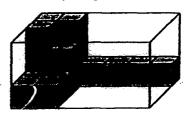
SCORE	}	

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



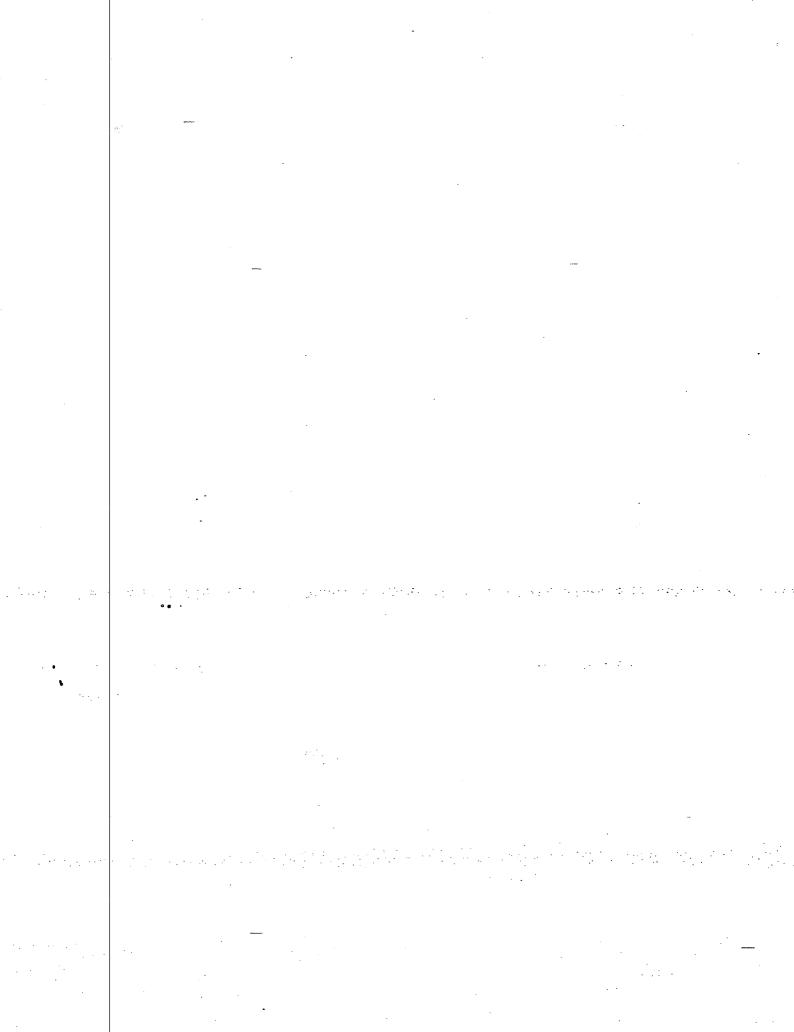
Answer: \_\_\_\_\_ cm<sup>2</sup>

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: \_\_\_\_\_

3	buy one more at half the price. What is the greatest number of buns that a—customer can buy with \$100?	Do not write in this space
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	interview of the second of the	
	•	
	•	
	Answer:	
Se	End of Paper  The Mrs. Agrees Chairs. Mrs. Jackens Tan. Mr. Stanlay Sob and Mr. Teng Rong Chap.  CODE	
	by : Mrş Agnes Chua, Mrs Jasiene Tan, Mr Stanley Soh and Mr Teng Beng Chye SCORE	
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# PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION, 2016

# MATHEMATICS PAPER 2

Time: 1 h 40 min

Name :	:	(	)

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

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YOU ARE ALLOWED TO USE A CALCULATOR.

1				
!?	T-shirt cost \$36 and ised to buy the T-shirt?	y a T-shirt and a wallet. To centage of his savings wa	l all his savings to l cost \$144. What p	Sam us the wall
l				
-				
-				
.	% .	Answer:		
-				
	y is 252 m <sup>3</sup> .	tank is 36 m² and its capa he height of the water leve		
		_		

page 1 of 16

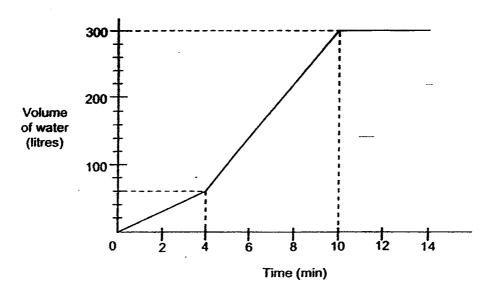
MA / PA / PI / 2016

3.	one end and the last	potted plants along a pot at the other end. m apart. What was the	The potted plants	s were placed at	Do not write in this space
			and the second s		
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				•	
	•				
			Answer:		
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			Answer:	١٤.	
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	•		•	SCOR	E
MA / P6 /	PL/2016	Page 2 of 16	.1 .	(Go on to the next page	;)

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?

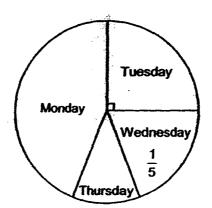
Answer:	

provi	questions 6 to 18, show your working clearly and write your answers vided. The number of marks available is shown in brackets [ ] at the stion or part-question.	e end of each (50 marks)	Do not wri in this spac
<b>)</b> .	Every day, Ali saves \$2 and Siti saves \$5. If they start saving on the how many days will it take Siti to save \$210 more than Ali?	same day,	
		-	
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	The sets was facilities of which with the tiple of the companies.		-: •
• • •	and seek the discourage of the second discourage in the second the second tender of the discourage in the disc The second discourage is the second discourage in the second discourage in the second discourage in the second		
	Answer:	[3]	_
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7.			kies on Monday. He s	old $\frac{3}{7}$ of them	on Tuesda	$\frac{1}{2}$	Do not writ in this spac
	oi∘ine (a)	rest on Wednesday What fraction of th	e cookies were left?		•		
	(b)		another 732 cookies or is he had on Monday.				
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			_				
		_					
	•	• • • • • • • • • • • • • • • • • • •					
	# 4 . <sup>*</sup>		germenn og setter	Arman and	e je karê	10 1 11 8 11	i II eey
	٠	· ;					· .
•							
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			— Ans	wer: (a)		_ [1]	
		·		(b)		[2]	
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MA / PF	S/PL/201	16	Page 5 of 16		Go on to the i	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.

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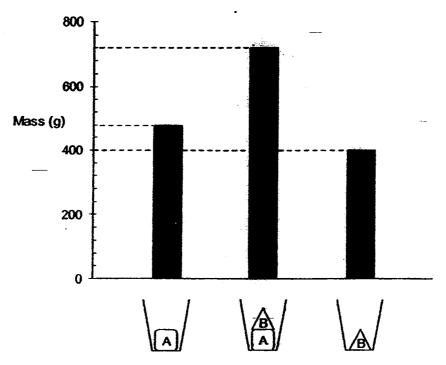
- (a) How many Primary 1 pupils had their eyes checked on Wednesday?
- (b) 40% of the Primary 1 pupils had their eyes checked on Monday. How many Primary 1 pupils had their eyes checked on Thursday?

Answer: (a) \_\_\_\_\_[2]

(b) \_\_\_\_\_(2)

 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]

95 1 mg	mixed	rice into as man	y packets of 40 g e	ach as possible.			in this space
	(a)	How many such	n packets did he ge	<b>!?</b>		•	
	(b)	What was the n	nass of the remaini	ng mixed rice?			
			state and the state of the stat	विश्वासी <b>नि</b> श्चित्र । इस्तर । स्टब्स्ट्रेस			
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				Answer: (a)		[3]	
			• •	(b) _	· · · · · · · · · · · · · · · · · · ·	[1]	
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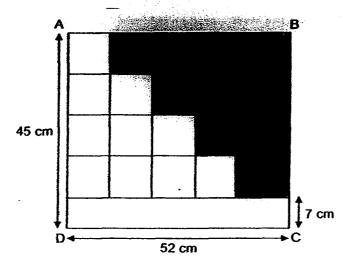
Mr Peh mixed 3.75 kg of white rice with 7.5 kg of brown rice. He packed the

Do not write

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?



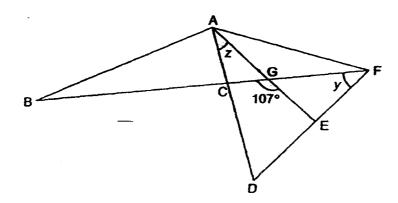
Answer: (a) \_\_\_\_\_[3]

(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  $\angle y + \angle z$ .



nswer: \_\_\_\_\_[4]

13	. In a ga times a	me, Rene scored 10 times as many points as Shaun. Shaun scored 10 is many points as Tom. Shaun scored 65.16 points more than Tom.	Do not write in this space
	(a)	How many more points did Rene score than Shaun?	
	(b)	Find the total points scored by Rene, Shaun and Tom.	
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		•	
		•	
		Answer: (a)[2]	
	• • • • • •	(b)[2]	
		SCORE	
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• to	Roy and Sid started to jog on an 8-km track at the same time. Roy still had 1.5 km to jog when Sid completed the 8 km. 10 minutes later, Roy completed the 8 km. Their jogging speeds did not change from start to finish.						Do not write in this space
(a	) How long di	d Roy take to co	omplete the tr	ack?			
(b)	) What was S	id's jogging spe	ed in km/h?				
				•			
	e.						
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<del>-</del>			Answ	er (a)		[2]	en eg e
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MA/P6/PL/	2016	Page	12 of 16		(Go on to the n	L	

shop. They spent	the same amount of	iming bought some s money but Kaiming	mall muffins from bought 156 more	the in this space
muffins than Jim.	How much money di	d Jim spend?		
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		Answer:	<b>[</b> -	4]
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16.	Mr Li had a total of 1051 goats, ducks and chickens on his farm at first. The ratio	Do not write in this space
	of the number of chickens to the number of ducks was 5:3. After selling $\frac{2}{3}$ of	
	the ducks and $\frac{2}{3}$ of the goats, he had 457 animals left.	
	How many goats did he have at first?	
		_
4	n de alfolde egye e en elegasjon byeken 1000 magneticksje en avstale 📜 🚜	•
	•	
	•	
	<u>-</u>	
	Answer:[4]	
1 .		

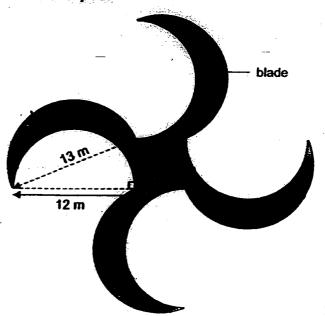
MA/P6/PL/2016

(Gn on to the next name)

- 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]	

SCORE

Do not write

,				
		<del>-</del>		
•	18.	Each participant paid \$25 to attend a workshop. On Satur female participants was 130 fewer than the number of male participants decreased by of female participants increased by 20%. There were 574-Find the total amount of money paid by all the participants	le participants. y 20% while the number participants on Sunday.	Do not write in this space
·		•		
		<u>,</u>		
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			• •	
		•		
		•		••
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			·	
		Answer:	[4]	
_		End of Paper		
S	et by : I	Mrs Agnes Chua, Mrs Jasiene Tan, Mr Stanley Soh and Mr Teng Beng C	hye [	<u> </u>
			SCORE	
		·		

#### **PRELIMINARY EXAM PAPER 2016**

SCHOOL

: PEI CHUN PRIMARY SCHOOL

**SUBJECT** 

: MATHEMATICS PAPER 1

TERRA

: PRELIMINARY EXAMINATION 2016

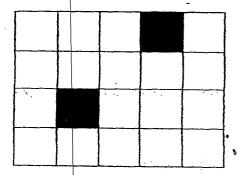
#### **Booklet A**

Q1	Q2	Q3	Q4	Q5	Q6	<b>Q7</b>	Q8	Q9 Q10
4	3	1	4	3	2	2	3	4 3
Q11	Q12	Q13	Q14	Q15		<del></del>	· · · · · · · · · · · · · · · · · · ·	<del></del>
2	4		,		3			

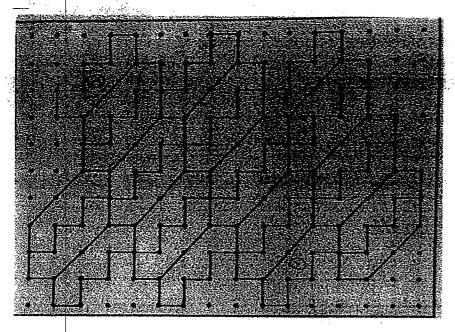
#### **Booklet B**

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

### Q22.



Q23.



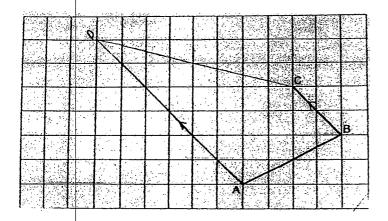
Q24. 14

**Q25.** 1550

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

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

Q27.



Q28.  $44cm^2$ 

**Q29.** 53 cubes

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

$$4 \div 0.8 = 5$$

$$= 128 + 5$$

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

# Answer: 27.5m

Q4. At first 
$$6 - \frac{2}{5} + 1\frac{3}{4} = 7\frac{7}{20}$$
  
= 7.35

# Answer: 7.35L

Q5.

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

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

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

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

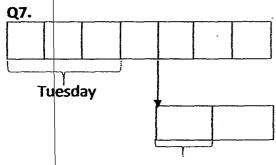
#### Answer: 25L

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 
$$\longrightarrow \frac{1}{5} \times 200 = 40$$

(b) % Thursday 
$$\longrightarrow$$
 100 - 40 - 25 - 20 = 15  
Thursday  $\longrightarrow$   $\frac{15}{100}$  x 200 = 30

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

**Q9.** B 
$$\rightarrow$$
 720 - 480 = 240

Empty cup  $\longrightarrow$  400 – 240 = 160

Answer: 160g

#### Q10(a)

Total → 3.75 + 705 = 11.25

11.25kg = 11250g

Packets  $\to$  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)

Total area  $\longrightarrow$  45 x 52 = 2340

Area of square  $\longrightarrow$  9.5 x 9.5 = 90.25

Area of rectangle  $\Rightarrow$  52 x 7 = 364

Areā of shaded  $\longrightarrow$  2340 - 90.25 x 10 - 364 = 1073.50

# Answer: (a) 161cm (b) 1073.5cm<sup>2</sup>

Q12.

LCGA = 180 - 107 = 73

LGAF + LGFA = 180 - 107 = 73

Ly + Lz = 120 - 73 = 47

## Q13(a)

R

100 100	<b>10</b> U	10U	<b>10</b> U	10U	10U	<b>10U</b>	10U	10U
							L	

S.



T

65.16

9 parts → 65.16

1 part 
$$\rightarrow$$
 65.16  $\div$  9 = 7.24

90 parts 
$$\rightarrow$$
 7.24 x 90 = 651.6

Q13(b)

(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 tāke 
$$->$$
 50 - 10 = 40

$$Sid(1min) \longrightarrow 8 \div 40 = 0.2$$

Sid(1h) 
$$\rightarrow$$
 0.2 x 60 = 12

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

Q15

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

(big)

78 groups  $\longrightarrow$  78 x 9 = 702

(big)

14 large  $\rightarrow$  9 x 7 = 63

14 small - 12 x 2 = 24

 $Diff \longrightarrow 63 - 24 = 39$ 

Kaiming buy  $\longrightarrow$  702 ÷ 39 = 18

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

Answer: \$432

Q16.

Chicken: Duck

Before 5 :

After 5 : 1

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

10 units --- 1371 - 1051 = 320

1 unit -  $320 \div 10 = 32$ 

Chicken + duck --- 32 x 8 = 256

Goāt at first --- 1057- 256 = 795

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 u	nits	130	М	Sat
100 u	nits		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