

PRIMARY 5 MATHEMATICS PAPER 1 (BOOKLET A)

25 OCT 2016

Name:	
Form Class / Register No. : 5L/	
Banded Class / Register No. : 5M/	
Total time for Booklets A an	d B: 50min
INSTRUCTIONS TO CANDIDATES	
 Write your Name, Class and Register No. in the spaces provide above. 	ded
DO NOT turn over this page until you are told to do so.	
Follow all instructions carefully.	
Answer all questions.	
Shade your answers on the Optical Answer Sheet (OAS) prov	ided.
6. The use of calculator is NOT ALLOWED.	

This booklet consists of $\underline{5}$ printed pages, excluding the cover page.

Paper 1 (Booklet A)

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

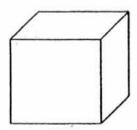
You are not allowed to use a calculator. (20 marks)

off 789 549 to the nearest thousand.		3 4 0
9 000		
9 550		
0000		
0000	()
umber 89.76, which digit is in the tenths place?		
*		
	()
	off 789 549 to the nearest thousand. 9 000 9 550 0 000 umber 89.76, which digit is in the tenths place?	9 000 9 550 0 000 0 000 (umber 89.76, which digit is in the tenths place?

- 3 Find the sum of $\frac{1}{2}$ and $\frac{1}{3}$.
 - (1) $\frac{1}{5}$
 - (2) $\frac{2}{5}$
 - (3) $\frac{5}{6}$
 - 4) $\frac{2}{6}$

4	Fin	d the value of $\frac{1}{3} \div 6$		
	(1)	18		
	(2)	2		
	(3)	$\frac{1}{2}$		
	(4)	1 18	()
5	The	ratio of the cost of a guitar to the cost of a piano is 1 : 10. If guitar is \$200, what is the cost of the piano?	the co	ost of
	(1)	\$20		
	(2)	\$220		
	(3)	\$2000		
	(4)	\$2200	()
6.	The ratio	height of Jason is 100 cm and the height of Irene is 120 cm of Jason's height to Irene's height in the simplest form.	n. Find	i the
	(1)	5:6		
	(2)	6:5		×
	(3)	10:12		
	(4)	12:10	()
7	Ехрі	ress $\frac{2}{5}$ as a decimal		
	(1)	0.2		₁₀ €
	(2)	0.25		×
	(3)	0.4		
	(4)	2.5	()
PHPF	S/Math	n/P5/SA2/P1 A/2016 2		400

- 8 What is the value of 0.03 × 200?
 (1) 0.6
 (2) 6
 (3) 60
 (4) 600
 ()
- 25% of the pupils in a class are boys. If there are 8 pupils in the class, how many girls are there in the class?
 (1) 6
 (2) 2
 (3) 24
 - (4) 32 ()
- 10 The figure below shows a cube with side of 7 cm.

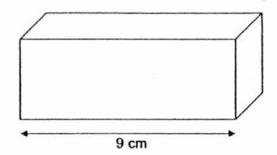


Which one of the following is the volume of the cube?

- (1) 7 cm³
- (2) 21 cm³
- (3) 49 cm³
- (4) 343 cm³

11	Find	d the value of $2 + (3 + 4) \times 6 - 4 \div 2$.		
	(1)	19		
	(2)	25		
	(3)	42		
	(4)	52	()
12		re are 160 cars and 240 vans at a car park. What fraction of the car park are vans?	he veh	icles
	(1)			
	(2)	$\frac{2}{3}$		
	(3)	$\frac{2}{5}$		
	(4)	3 5	()
13	The	ratio of fiction books to non-fiction books on a shelf was 5 :	2. Afte	er 40.
		-fiction books were added, the ratio of the number of fiction b		
		-fiction books on the shelf became 1 : 2. How many non-fice there in the end?	XION D	ooks
	(1)	10		
	(2)	20		
	(3)	25		
	(4)	50	()

- 14 The mass of Box A and Box B is 0.6 kg. The mass of Box A and Box C is 1.3 kg. Box C is 3 times as heavy as Box B. Find the mass of Box A.
 - (1) 0.25 kg
 - (2) 0.29 kg
 - (3) 0.30 kg
 - (4) 0.35 kg
- The figure below shows a rectangular cuboid. The volume of the cuboid is 108 cm³ and its length is 9 cm.



Which one of the followings are the possible breadth and height of the cuboid?

- (2)
- (3)
- (4)

Breadth	Height
3 cm	3 cm
3 cm	4 cm
6 cm	6 cm
9 cm	9 cm



PEI HWA PRESBYTERIAN PRIMARY SCHOOL **SEMESTRAL ASSESSMENT 2**

PRIMARY 5 MATHEMATICS PAPER 1 (BOOKLET B)

(
25 OCT 2016
Name : Parent's signature
Form Class / Register No. : 5L/
Banded Class / Register No. : 5M /
Total time for Booklets A and B: 50min
INSTRUCTIONS TO CANDIDATES
 Write your Name, Class and Register No. in the spaces provided above.
DO NOT turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write all your answers in this booklet.
6. The use of calculator is NOT ALLOWED.
Marks (Booklet A):
Marks (Booklet B):
Total Marks (Booklets A and B):

This booklet consists of 6 printed pages, excluding the cover page.

Questions	16	to	25	carr	y 1	ma	ark	eac	h. V	Vrite	you	ır an	swers	in	the	spa	ces
provided.	For	qu	esti	ons	whi	ch	req	uire	unit	s, gi	ive y	your	answe	ers			
stated.															(10	ma	rks)

Do not write in this space.

16 What is two million, six thousand and nine in numeral?

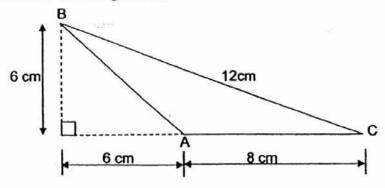
Ans:

17 John took 3 h to paint $\frac{4}{5}$ of a room.

How long would be take to paint $\frac{1}{5}$ of the same room?

Ans:____h

18 Find the area of the triangle ABC.



Ans:_____cm²

19	The cost of a drum is twice the cost of 2 flutes. Find the ratio of the cost of a drum to the cost of a flute.	Do not write in this space.
¥	Ans:	
20	The figure below shows an isoceles triangle XYZ. Given ∠ XZY = 61°, find ∠ XYZ.	
	z 61°	
	Ans:o	
21	1.02 l =ml	

2

(Go on to the next page)

PHPPS/Math/P5/SA2/P1_B/2016

7	22	Express $\frac{4}{5}$ as a percentage.		Do not write in this space.
.1			Ans:%	
ς -	23	The mass of a papaya is 350 g and the r Find the average mass of the 3 fruits.	mass of 2 kiwi fruits is 250 g.	
		200		
			Ans:g	
,	24	ABC is a straight line and ∠ DBC = 123°. Find ∠ ABD.		
		D.		
		123°		
		А В	С	
			Ans:o	
	25	Find the length of the cube if the area of o	one of its faces is 400 cm ² .	
			Ans:cm	
		* * ,	, and	
		IDDOMENDE/CA2/D1 B/2016 3	(Go on to the pext page	

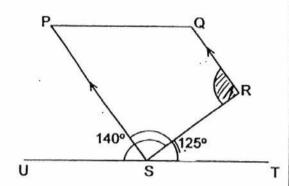
your answers the spaces provided. For questions which require units, give your answers in the units stated. (10 marks) 26 Tom has \$420 more than Jerry at first. For every \$2 Tom saves, Jerry saves \$5. Find the amount of money Jerry has saved when Jerry and Tom have the same amount of money. Ans: \$	
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Saves \$5. Find the amount of money Jerry has saved when Jerry and Tom have the same amount of money. Ans: \$	
27 Alvin spent \$28 more than $\frac{2}{5}$ of his money on books. He was left with	
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Ans: \$	7

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PHPPS/Math/P5/SA2/P1_B/2016

28 Given PS is parallel to QR, ∠USR = 140° and ∠PST is 125°, find ∠SRQ.

Do not write in this space.



Ans: ______o

The length of a rectangular field is 110.6 m. Its breadth is 20.75 m shorter than its length. Find the distance covered by Johnny if he walks around the whole field once.

Ans:______m

30	Gabriel spent 40% of his money on a school bag. He spent $\frac{2}{5}$ of the	in this space.
	remainder on some stationeries. What percentage of his money was	
	left?	
	140	
15		
	Ans:%	

END OF PAPER 1



PEI HWA PRESBYTERIAN PRIMARY SCHOOL SEMESTRAL ASSESSMENT 2

PRIMARY 5 MATHEMATICS PAPER 2

25 OCT 2016	
Name:	Parent's signature
Form Class / Register No. : 5L/	_
Banded Class / Register No. : 5M/	_
	Total time: 1h 40min
INSTRUCTIONS TO CANDIDATES	
 Write your Name, Class and Register No. in the space above. 	ces provided
2. DO NOT turn over this page until you are told to do s	so.
3. Follow all instructions carefully.	
4. Answer all questions.	
5. Write all your answers in this booklet.	
6. The use of an approved calculator is expected, where	e appropriate.

	Paper 1 :	40
	Paper 2 :	60
# #S	Total Marks :	100

This booklet consists of 15 printed pages, excluding the cover page.

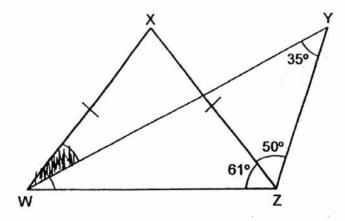
your	stions 1 to 5 carry 2 marks each. Show your working clearly and write answers in the spaces provided. For questions which require units, give answer in the units stated. (10 marks)	Do not write in this space
1	The ratio of the number of boys to the number of girls in a class was 1:1. After 3 boys were transferred out of the class to another school, the ratio of the number of boys to the number of girls became 4:5. How many children were there in the class at first?	
	a s	
	*	
	ž	
	*	
	Ans:	
2	Can drinks are sold in packs of 3 and each pack costs \$2.50. Find the most number of can drinks that can be bought with a \$10 note if the can drinks are sold at a discount of 20%.	**
	\$2.50 for 3	÷
	·	
	Ans:	
21	Allo.	
PH	PPS/Math/P5/SA2/P5/2016 I (Go on to the next page	e)

3 The average height of Jane, Ian and Kelvin is 120 cm. Jane is 100 cm tall and Ian is 123 cm tall. Find the height of Kelvin.

Do not write in this space

Ans:_____ cm

The figure below is made up of two triangles, WXZ and WYZ. WX = XZ, ∠WZX = 61°, ∠XZY = 50° and ∠WYZ = 35° Find ∠XWY.



Ans:______o

5	The capacity of a jug is twice the amount of apple juice in it. The apple juice is emptied and poured into 5 identical cups. The cups were fully filled to its brim and the capacity of each cup is 250 ml. Find the capacity of the jug in ml.	Do not write in this space
		_
	es _e	
	Ans:ml	

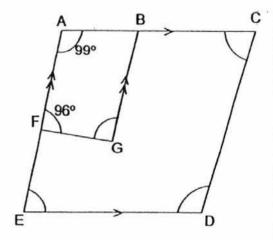
For questions 6 to 18, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part question. (50 marks)	Do not write in this space
Adam has \$135 less than Brian and Brian has \$190 more than Celine. Adam and Celine have a total of \$111.50. How much does Celine have?	
*	
Ans:[3]	
7 $\frac{3}{4}$ of Dylan's savings is equal to $\frac{2}{3}$ of Eric's savings. Dylan and Eric save a total of \$408. Find Dylan's savings.	
	¥
× ×	
Ans: [3]	

8	The ratio of the number of apples to the The ratio of the number of papayas to the There are a total of 3420 fruits. How man	the number of oranges is 2:3.	Do not write in this space
	g		
		2	
	757		
8		* ž	
		a	35 871
		¥	
	3 "	Ans:[3]	

In the figure below, AC is parallel to ED and AF is parallel to BG. AFE is a straight line, ∠AFG = 96°. ∠FAR = 99° and the sum of ∠BCD and ∠DEF is 150°.

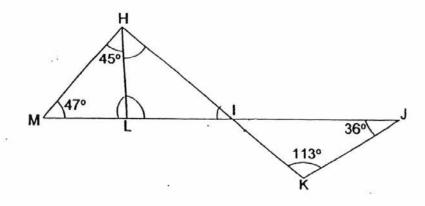
Do not write in this space

- (a) Find ∠FGB.
- (b) Find ∠EDC.



Ans: (a)	[1]	ļ
(b)	[2]	

- In the figure below, HIK and MLIJ are straight lines.
 ∠HML = 47°, ∠MHL = 45°, ∠IJK = 36° and ∠IKJ = 113°.
 - (a) Find ∠HLI.
 - (b) Find ∠LHI.

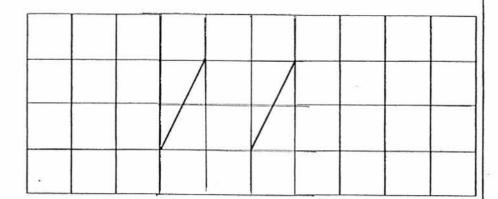


Ans: (a)_____[1]

(b)_____[2]

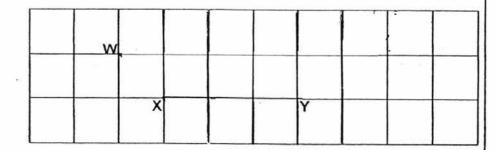
11 In the square grid below, a parallelogram has been drawn.

Do not write in this space



(a) In another similar square grid below, draw and label a trapezium WXYZ which has the same area as the parallelogram above.

[2]

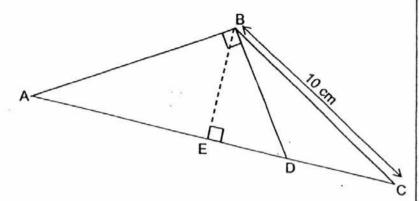


(b) Measure and write down the value of $\angle WXY$.

Ans: (b) _____

The figure below shows a triangle ABC. The ratio of the length AB to the length BD to the length BC is 4:3:5. The length BC is 10 cm.

Do not write in this space



- (a) Find the area of triangle ABD.
- (b) In triangle BCD, if BE is the height, which is the base?

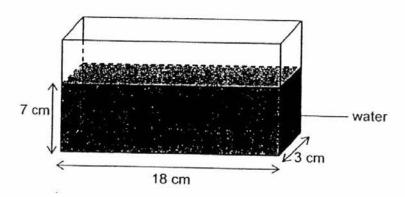
Ans: (a)______[3]

(b)_____[1]

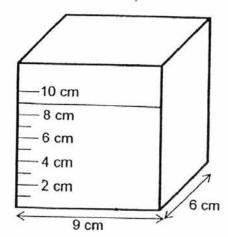
13	cherries in an identical basket is 1.05 kg. The mass of 35	Do not write in this space
	(a) Find the exact mass of a cherry in grams.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(b) Find the mass of the empty basket in grams.	
	36/3	
	±° 	
	ar and a second and	
	Ans: (a)	[2]
		[2]
		-,

The figure below shows a rectangular container. It is $\frac{3}{5}$ filled with water. The length of the container is 18 cm and its breadth is 3 cm.

Do not write in this space



- (a) Find the capacity of the container in litres.
- (b) All the water in the rectangular container is poured into another container as shown below. Draw a line on the container to represent the water level of the amount of water in it. [2]



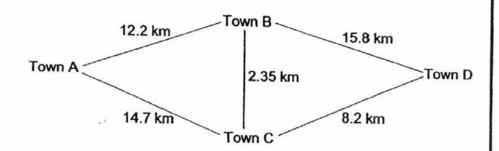
Ans: (a)_______[2]

- The number of red balls is twice the number of blue balls. The number of blue balls is 10 more than the number of green balls. The total number of balls is 142. The cost of each red ball is \$2.50 and the cost of each green ball is \$1.50. The total cost of all the balls is \$251.
 - (a) Find the number of green balls.
 - (b) Find the cost of a blue ball.

Ans: (a)	[2]	
(b)	[3]	

The diagram below, not drawn to scale, shows the distances between 4 towns.

Do not write in this space



- (a) Ethan travels from Town A to Town B and then to Town D. Find the distance he has travelled in metres.
- (b) The cost of petrol consumption for every km travelled is 60 cents. Find the cost of the petrol consumption to travel from Town B to Town C.
- (c) Find the shortest distance to travel from Town A to Town D. Leave your answer in km and m.

Ans:	(a)	[1]

17	80 goats were taken out of the farm, the number of goats became 60% of the number of cows in the farm.	
	(a) How many cows were there in the farm?	
	(b) What percentage of the goats were moved out of the farm?	
	e en	
	•	
	*	
		.8
	e e	
	Ans: (a)[3	,
	45	

18	Sam runs 100 metres for 5 times. The average time taken for his first three runs is 14.5 seconds. He aims to have an average timing of 12.8 seconds for his five runs.	Do not write in this space
	(a) What is the average time he needs to take for his 4th and 5th run in order to achieve his aim?	
	(b) If he runs 3 seconds faster in one of the five runs, what would be his average time for the five runs?	
	g v	×4
٠		
		(28)
ut.		
		*
	Ann. (a)	
	Ans: (a)[3]	

- End of Paper 2 -

YEAR

2016

LEVEL

PRIMARY 5

SCHOOL

PEI HWA PRESBYTERIAN PRIMARY

SUBJECT

: MATHEMATICS

TERM

SA2

Paper 1

A	07		1			
4	Q/	3	Q10	4	013	1
3	O8	2		2		-
4				<u> </u>	Q14	1
1	Q9	1	Q12	4	Q15	2
	4 3 1	4 Q7 3 Q8 1 Q9	3 Q8 2	3 Q8 2 Q11	3 Q8 2 Q11 3	3 Q8 2 Q11 3 Q14

Q16 2006009

Q17 $\frac{3}{4}$ h

Q18 24 cm²

Q19 4:1

Q20 $61^{\circ} \times 2 \rightarrow 122^{\circ}$ $180^{\circ} - 122^{\circ} \Rightarrow \underline{58^{\circ}}$

Q21 1020 ml

Q22 80 %

Q23 $350 + 250 \rightarrow 600$ $600 + 3 \Rightarrow 200 \text{ g}$

Q24 57°

Q25 20 cm

Q26 Diff $\rightarrow 5 - 2 = 3$ 420 + 3 = 140 140 x 5 \Rightarrow \$700

Q27
$$\frac{5}{5}$$
 Total
books left
 $\frac{2}{5} + $28 \quad \frac{3}{5} - $28 \quad ($44)$
 $\frac{3}{5}$ of M \rightarrow 44 + 28 = 72
 $\frac{1}{5}$ of M \rightarrow 72 + 3 = 24
 $\frac{5}{5}$ of M \rightarrow 24 x 5 \Rightarrow $\frac{$120}{}$

Q28
$$\angle RST \rightarrow 180^{\circ} - 140^{\circ} = 40^{\circ}$$

 $\angle PSR \rightarrow 125^{\circ} - 40^{\circ} = 85^{\circ}$
 $\angle SRQ \rightarrow 180^{\circ} - 85^{\circ} \Rightarrow 95^{\circ}$

Q29 B
$$\rightarrow$$
 110.6 - 20.75 = 89.85
2B \rightarrow 89.85 + 89.85 = 179.70
2L \rightarrow 110.6 + 110.6 = 221.20
Total \rightarrow 221.20 + 179.70 \Rightarrow 400.90 m

Q30
$$\frac{2}{5} \times \frac{3}{5} = \frac{6}{25}$$
 (stationeries)
 $\frac{25}{25} - \frac{10}{25} - \frac{6}{25} = \frac{9}{25}$
 $\frac{9 \times 4}{25 \times 4} \rightarrow \frac{36}{100} \Rightarrow 36 \%$

Paper 2

Q1
$$1u \rightarrow 3$$

 $5u + 5u = 10u$
 $10u \rightarrow 10 \times 3 \Rightarrow 30$ children

Q2
$$\frac{20}{100} \times 2.5 = 0.5$$

2.5 - 0.5 = 2.0
10 + 2 = 5
5 x 3 \Rightarrow 15 can drinks

Q5 Total capacity of 5 cups
$$\rightarrow$$
 250 x 5 = 1250
Capacity of jug \rightarrow 1250 x 2 \Rightarrow 2500 ml

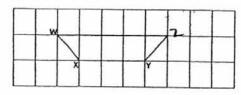
Q6
$$190-135=55$$

 $2u \rightarrow 111.50-55=56.50$
 $1u \rightarrow 56.50+2 \Rightarrow 28.25

Q7
$$\frac{3 \times 2}{4 \times 2}$$
 of D $\rightarrow \frac{2 \times 3}{3 \times 3}$ of E
 $\frac{6}{8}$ of D $\rightarrow \frac{6}{9}$ of E
 $8u + 9u = 17u$
 $17u \rightarrow 408$
 $1u \rightarrow 408 + 17 = 24$
 $8u \rightarrow 24 \times 8 \Rightarrow 192

Q10b
$$\angle$$
KIJ \rightarrow 180° - 113° - 36° = 31° \angle LHI \rightarrow 180° - 92° - 31° \Rightarrow 57°

Q11a



Q11b ∠WXY ⇒ 136°

Q12a
$$5u \rightarrow 10$$

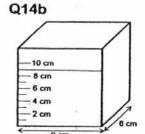
 $1u \rightarrow 10 + 5 = 2$
 $3u \rightarrow 2 \times 3 = 6 \text{ (BD)}$
 $AB \rightarrow 2 \times 4 = 8$
 $\angle ABD \rightarrow \frac{1}{2} \times 8 \times 6 \Rightarrow 24 \text{ cm}^2$

Q13a 25C
$$\rightarrow$$
 1.05 - 0.5 = 0.55
1C \rightarrow 0.55 + 25 = 0.022 kg \Rightarrow 22 g

Q13b
$$10C \rightarrow 0.022 \times 10 = 0.22$$

B $\rightarrow 0.5 - 0.22 = 0.28 \text{ kg} \Rightarrow 280 \text{ g}$

Q14a
$$\frac{3}{5}$$
 of T \rightarrow 18 x 3 x 7 = 378
 $\frac{1}{5}$ of T \rightarrow 378 + 3 = 126
Vol: $\frac{5}{5}$ of T \rightarrow 126 x 5 = 630 ml \Rightarrow 0.63 ℓ



Q15a
$$4u \rightarrow 142 - 30 = 112$$

 $1u \rightarrow 112 + 4 \Rightarrow 28$ green balls

Q15b Total no. of blue balls \rightarrow 28 + 10 = 38 Total no. of red balls \rightarrow 28 + 28 + 20 = 76 Total price of red balls \rightarrow 76 x 2.50 = 190 Total price of green balls \rightarrow 28 x 1.50 = 42 190 + 42 = 232 251 - 232 = 19 Cost of 1 blue ball \rightarrow 19 + 38 \Rightarrow \$0.50

Q16b 2.35 x 0.6 => \$1.41

Q16c Shortest distance → 12.2 + 2.35 + 8.2 = 22.75 km ⇒ 22km 750m

Q17a
$$AF$$
 Chg End
C: G G-18 C: G
3: 5 5 5: 3
x5 x3
15u: 25u 15u: 9u
16u \rightarrow 80
1u \rightarrow 80 + 16 = 5
15u \rightarrow 15 x 5 \Rightarrow 75 cows

Q17b
$$25u \rightarrow 25 \times 5 = 125$$

 $\frac{80}{125} \times 100 \% \Rightarrow \underline{64 \%}$

Q18a First three runs
$$\rightarrow$$
 14.5 x 3 = 43.5
Five runs \rightarrow 12.8 x 5 = 64
Total time for 4th & 5th run \rightarrow 64 - 43.5 = 20.5
Average time \rightarrow 20.5 + 2 \Rightarrow 10.25 seconds

Q18b
$$64-3 \rightarrow 61$$

Average time $\rightarrow 61+5 \Rightarrow 12.2$ seconds