METHODIST GIRLS' SCHOOL

Founded in 1887



PRIMARY 5 SEMESTRAL ASSESSMENT 2 2014 MATHEMATICS PAPER 1

(BOOKLET A)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Name:	()
Class:	Primary 5	
Date:	28 October 2014	

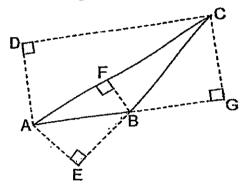
This booklet consists of 6 printed pages including this page.

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. (20 marks)

- 1 Round off 388 599 to the nearest thousand.
 - (1) 388 000
 - (2) 389 000
 - (3) 390 000
 - (4) 400 000
- 2 There are _____ thousands in half a million.
 - (1) 500
 - (2) 5 000
 - (3) 50 000
 - (4) 500 000
- In the number 624 231, the value of the digit 2 in the ten thousands place is _____ times the value of the digit 2 in the hundreds place.
 - (1) 10
 - (2) 100
 - (3) 1 000
 - (4) 10 000
- 4 What is the value of $5\frac{3}{8}$ $1\frac{2}{3}$?
 - (1) $3\frac{7}{12}$
 - (2) $3\frac{17}{24}$
 - (3) $4\frac{1}{5}$
 - (4) $4\frac{5}{24}$

- The value of $\frac{4}{5}$ + 8 is equal to _____. 5
 - (1) $\frac{4}{5} \times 8$

 - (2) $8 \div \frac{4}{5}$ (3) $\frac{4}{5} \times \frac{1}{8}$ (4) $\frac{5}{4} \times 8$
- BC is the base of triangle ABC. What is its height? 6



- (1) CD
- (2) ΑE
- (3) BF
- CG (4)
- 7 What is 0.35 x 300?
 - 0.105 (1)
 - 1.05
 - (2) (3) (4) 10.5
 - 105
- 8 Which of the following is the same as 9 090 mi?
 - 9 l 9 ml (1)
 - (2) 9 l 90 ml
 - (3) 90 ℓ 9 mℓ
 - 90 ℓ90 mℓ

9 Which of the following statements about Figure A and Figure B are true?

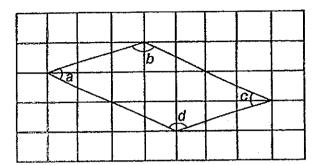


Figure A

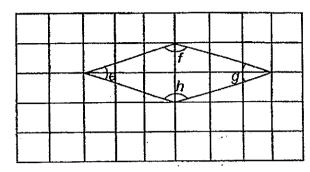
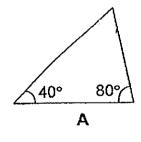
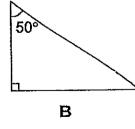


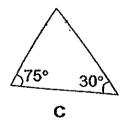
Figure B

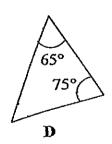
	Figure A	Figure B
(1)	All sides are of the same length.	All sides are of the same length.
(2)	∠a + ∠b = 180°	∠f + ∠h = 180°
(3)	Opposite sides are parallel to each other.	Opposite sides are parallel to each other.
(4)	∠b = ∠d	∠e = ∠f

10 The triangles below are not drawn to scale. Which of the triangles is an isosceles triangle?





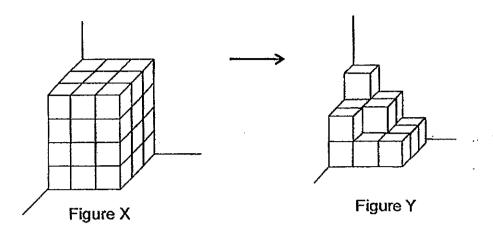




- (1) Triangle A
- (2) Triangle B
- (3) Triangle C
- (4) Triangle D

- Mrs Tan gave her three children some money in the ratio 4:3:2. The eldest child received the greatest share of \$32. How much was the smallest share?
 - (1) \$8
 - (2) \$2
 - (3) \$16
 - (4) \$25
- In a competition, the average score of points obtained by 4 girls was 26 and the average score obtained by 8 boys was 32. What was the average score of the 12 children?
 - (1) 29
 - (2) 30
 - (3) 58
 - (4) 180
- 13 There are pears, apples and oranges in a box. There are altogether 120 fruits in the box, of which 30 are pears. The ratio of the number of apples to the number of oranges is 3:2. What percentage of the fruits are oranges?
 - (1) 20%
 - (2) 30%
 - (3) 40%
 - (4) 48%
- A bookshop owner bought an equal number of red pens and green pens. She sold $\frac{1}{4}$ of the red pens and $\frac{11}{12}$ of the green pens. She was then left with 72 more red pens than green pens. How many pens did be buy altogether?
 - (1) 84
 - (2) 108
 - (3) 126
 - (4) 216

The solid figures below are made up of 1-cm cubes. The cubes are stacked on top of one another.



How many 1-cm cubes must be removed from Figure X to form Figure Y?

- (1) 10
- (2) 15
- (3) 21
- (4) 26

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PRIMARY 5 SEMESTRAL ASSESSMENT 2 2014 MATHEMATICS

PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Name:		()
Class:	Primary 5		
Date:	28 October 2014		

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 60
TOTAL	/ 100

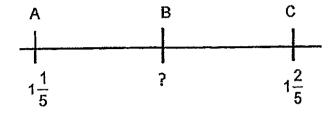
This booklet consists of 6 printed pages including this page.

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)		
16	What is the remainder when you divide 790 by 60? Ans:	
17	What is missing number in the box below? 75 + 21 ÷ 56 = 22	
	Ans:	
18	Find the value of 24 x $1\frac{5}{8}$	
19	Ans: Find the sum of $5\frac{1}{2} + 1\frac{5}{6}$. Give your answer in the simplest form.	
	Ans:	

In the number line below, A represents $1\frac{1}{5}$ and C represents $1\frac{2}{5}$ AB = BC. What number is represented by B?

Do not write in this space

Express your answer as a decimal.



Ans: ____

$$24 \qquad \frac{23}{10} + \frac{23}{100} + \frac{23}{1000} + =$$

Ans: _____

The average height of 5 boys is 1 m 48 cm. What is their total height? Give your answer in m and cm.

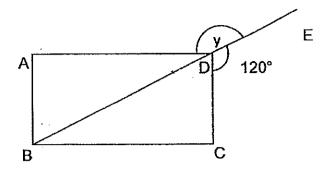
Ans: ____ m ___ cm ____

23 Express 36 minutes as a percentage of 2 hours.

Ans: _____%

The figure below shows a rectangle ABCD. BE is a straight line. Find ∠y.

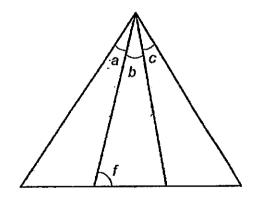
Do not write in this space



Ans:



The figure below shows an equilateral triangle PQT and an isosceles triangle PRS with PR = PS. $\angle a = \angle b = \angle c$. Find $\angle f$.



Ans: _____

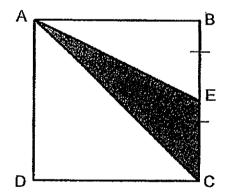
Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

Forty women had to bake some cookies. One more woman joined the group and the rest baked 3 fewer cookies each. How many cookies did they bake altogether if each of them had to bake the same number of cookies?

	٠,,	
ns:		

ABCD is a square of area 64 cm². BE = EC. What is the area of triangle ACE?



_		
Ans:	cm ²	

28	Mrs Naidu made 3 types of curry puffs — chicken, sardine and potato. $\frac{2}{5}$ of these were chicken, $\frac{1}{3}$ were sardine and the rest were potato. What was the ratio of the number of sardine puffs to the number of chicken puffs to the number of potato puffs that Mrs Naidu made?	Do not write in this space
	Ans:	
29	A roll of ribbon was 5 m long. Aishah used 235 cm of it for dresses. What percentage of the roll of ribbon did she use for the dresses?	
	Ans :%	
30	A container contains 415 ml of water. When another 1035 ml of water is poured into the pot, 128 ml of water overflows. What is the capacity of the pot? Give your answer in ℓ and m ℓ .	
	Ans: t mℓ	
	End of Paper	

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PRIMARY 5 SEMESTRAL ASSESSMENT 2 2014 MATHEMATICS

PAPER 2

Duration: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

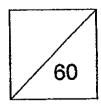
Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name:	()
Class:	Primary 5	
Date:	28 October 2014	



This booklet consists of 14 printed pages including this page.

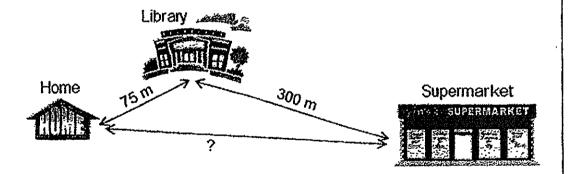
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

1 Kok Seng had some paint. He used $\frac{2}{5}$ of it to paint his bedroom. He then used $\frac{4}{9}$ of the remaining paint to paint his kitchen. What fraction of the paint was left? Give your answer in the simplest form.

	-
ns:	<u> </u>

David ran 75 m from his home to the library and then walked 300 m from the library to the supermarket. He then walked home from the supermarket. If David had run and walked a total distance of 2.05 km, what was the distance between his home and the supermarket?



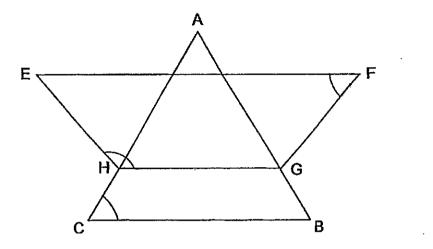
Ans: m	

3	From January to August last year, Mr Tang sold a total of 456 bags. He did not sell any bags in the next 4 months. On the average, how many bags did he sell per month last year?	Do not write in this space
	Ans:	
4	John drew a rectangle with a length of 30 cm and a breadth of 20 cm. His Art teacher totd him to increase the length and breadth of his rectangle by 20%. What was the area of the new rectangle that he drew?	
	Ans: cm ²	

The figure below is made up of an equilateral triangle ABC and a trapezium; EFGH, and EH = FG.

What is the sum of ∠EFG, ∠EHG and ∠ACB?

Do not write in this space



For questions 6 to 18, show your working clearly and write your answers Do not in the space provided. The number of marks available is shown in brackets [write in at the end of each question or part-question. this space (50 marks) A box can either contain 150 sweets or 30 chocolate bars. Samy 6 wants to have a mixture of sweets and chocolate bars in the box. He packs in 12 large chocolate bars. What is the most number of sweets he can pack into the box? Lily had \$20. She bought an equal number of files and pencils. A file cost 7 \$1.80 and a pencil cost \$0.90. What was the greatest number of files and pencils that she could have bought altogether?

8	Sally withdrew $\frac{5}{8}$ of her savings from her bank and spent \$140.
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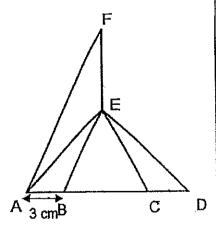
Do not write in this space

The amount she spent is $\frac{1}{6}$ of the amount she had left in the bank

- (a) How much was left in the bank?
- (b) How much did she withdraw from the bank?

Ans: (a)	[1]	
(b)	[2]	

9 In the figure below, AB = CD and BC = FE. BC is twice of AB. Find the area of triange FEA.



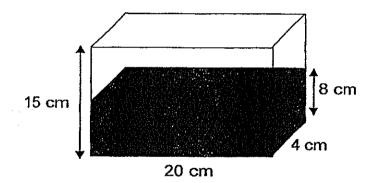
Ans:	[3]		
		ł	

Sharifah bought 3 bags of flour to bake some cakes. The mass of Bag A and Bag B is 7.06 kg. The mass of Bag A and Bag C is 9.2 kg. The mass of Bag C is one and a half times the mass of Bag B. What is the mass of Bag B in grams?

Do not write in this space

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_				'	

A tank contained some water as shown in the figure below. Ali poured 5 similar bottles of water into the tank to fill it completely. How much water did each bottle contain? Give your answers in m \(\ell. \).



Ans:[3]			
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A shop owner sold 175 T-shirts. He donated $\frac{1}{9}$ of the remaining T-shirts to a charitable organisation. He had $\frac{4}{7}$ of the T-shirts left.

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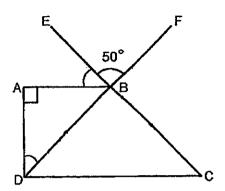
- (a) What fraction of the T-shirts was sold?
- (b) How many T-shirts had he at first?

Ans:	(a)	[2]
ABS:	lai	121

In the figure below, ABCD is a trapezium. BCD is an isosceles triangle. BC = BD. EC and DF are straight-lines. ∠ EBF = 50°.

Do not write in this space

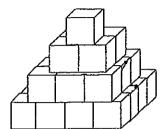
- (a) Find \angle ADF.
- (b) Find \angle EBA.



Ans: (a)	[3]
----------	-----

The solid below is made up by stacking 2-cm cubes. Each layer is a cuboid with a square base. The solid is dipped into a pail of blue paint. Find the total area of the solid which is painted blue. 14

Do not write in this space



Ans:	[4]	j	L

Do not write in this space

- Siti's weekly allowance is \$350. She spends \$130 on food. She spends an equal amount on transport and miscellaneous items and saves \$80 every week.
 - (a) What percentage of her weekly allowance does she spend on transport?
 - (b) Siti wants to buy a necklace which costs \$255. She has to pay 7% GST on top of the selling price of the necklace. How many weeks will she take to save enough money to buy the necklace if she saves the same amount of money each week?

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

(Go on to the next page)

In May, Adrian, Benjamin and Carman spent a total of \$1 510. 16 In June, Adrian increased his expenditure by \$120, Benjamin doubled his expenditure and Carman reduced her expenditure by \$130. The amount spent by each of them then became the same.

Do not write in this space

- (a) How much did Adrian spend in June?
- (b) How much did Carman spend in May?

Ans:	(a)		[3]	
------	-----	--	-----	--

12

There were a total of 420 passengers on a train. $\frac{3}{5}$ of the passengers 17 were adults. $\frac{1}{12}$ of the children were boys. Some girls alighted and the fraction of the passengers who were adults became $\frac{6}{7}$.

Do not write in this space

- (a) How many adults were there on the train at first?
- (b) How many girls were there on the train in the end?

Ans:	(a)	[2]
U119"	(a)	 [4]

Primary 5A and 5B have the same number of pupils.

The ratio of the number of boys to the number of girls in Primary 5A is 2:5.

The ratio of the number of boys to the number of girls in Primary 5B is 2:3.

Do not write in this space

- (a) What is the ratio of the number of girls in Primary 5A to the number of girls in Primary 5B?
- (b) In Primary 5B, $\frac{5}{7}$ of the boys passed Mathematics and $\frac{2}{3}$ of the girls passed Mathematics. What is the ratio of the number of boys who failed Mathematics to the number of girls who failed Mathematics in Primary 5B?

Ans:	(a)	[2	į
WIND.	(a)	 	

/L.X			[3]
(b)		 	[V]

End of Paper

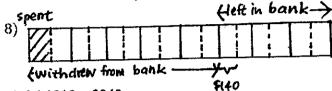
Methodist Girls' School Primary 5 Semestral Assessment 2 2014 **Mathematics**

- 1) 2
- 2) 1
- 3) 2
- 4) 2
- 5) 3
- 6) 2
- 7)4
- 8) 2
- 9) 3 10)3
- 11)3
- 12) 2
- 13) 2
- 14) 4
- 15) 3
- 16) 10
- 17) 7
- 18) 39
- 19) 7/1/3
- 20) 1.3
- 21) 2553/1000
- 22) 7m 40cm
- 23) 30%
- 24) 150°
- 25) 80°
- 26) 40*3 = 120 41*120 = 4920
- 27) 16 cm²
- 28) 5:6:4
- 29) 47%
- 30) 1litre 322ml

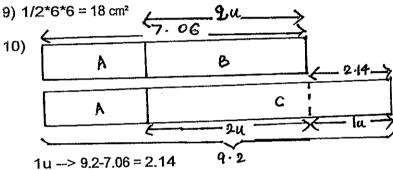
Paper 2

- 1) 1-2/5 = 3/5 4/9*3/5 = 4/15 1-2/5-4/15 = 1/3
- 2) 2050-300-75 = 1675m
- 3) 456/12 = 38 bags
- 4) New length = 120/100*30 = 36 cmNew breadth = 120/100*20 = 24 cm Area of new rectangle = 36*24 = 864 cm²

- 5) Angle EFG + Angle EHG = 180 ° (interior angles) Sum = 180+60 = 240 °
- 6) 1 chocolate bar -> 150/30 = 5 sweets 12 chocolate bars -> 12*5 = 60 sweets 150-60 = 90 sweets
- 7) 1 set of 1 file & 1 pencil = \$1.80+\$0.90 = \$2.70 \$20/\$2.70 = 7 sets 7*2 = 14 files & pencils

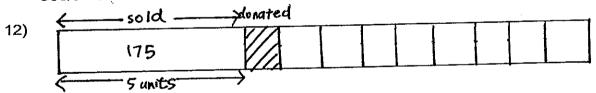


- a) \$140*6 = \$840
- b) \$140*10 = \$1400



 $2u \rightarrow 9.2-7.00 = 2.14$ $2u \rightarrow 2.14$ *2 = 4.28 kg = 4280g

11) 15-8 = 7cm 20*4*7 = 560 cm³ 560/5 = 112 cm³= 112 ml

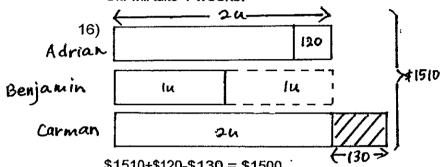


3 2

- a) 5/14
- b) 5u --> 175 14u --> 14/5*175 = 490 T-shirts at first
- 13) Angle BDC = (180-50)/2 = 65° (interior angles)
- a) Angle ADF = 90-65 = 25 °
 - Angle ABD = 180-90-25 = 65°
- b) Angle EBA = 180-65-50 = 65°.

14) Each face = $2*2 = 4 \text{ cm}^2$ Number of faces = 4*4+4*4*2+3*4+2*4+4 = 72Total Area = $72*4 = 288 \text{ cm}^2$

- 15) 350-130-80 = \$140 \$140/2 = \$70
- a) 70/350*100% = 20% 107/100*\$255 = \$272.85
- b) 272.85/80 = 3.4 Siti will take 4 weeks.



\$1510+\$120-\$130 = \$1500

\$1500//5 = \$300

- a) \$300*2 = \$600
- b) \$600+\$130 = \$730
- 17a) 3/5*420 = 252 adults at first
- b) 6u --> 252

1u -> 252/6 = 42

420-252 = 168 (children at first)

168-42 = 126 (girls alighted)

11/12*168 = 154 (girls at first)

154-126 = 28 (girls in the end)

18) Boys: Girls Total 2:5 5A 7u

2:3 5u

Since 5A & 5B have the same number of pupils,

10:25 5A 35u 5B 14:21 35u

- Hence, 25:21 a)
- b) 2/7*14 = 4 (boys failed)

1/3*21 = 7 (girls failed)

Hence, 4:7

