METHODIST GIRLS' SCHOOL

Founded in 1887



PRIMARY 6 CONTINUAL ASSESSMENT 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 6
Date:	4 March 2014

iklet consists of 7 printed pages including this page.

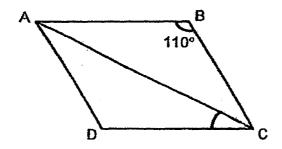
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

- 1. What does the digit 8 stand for in 5 068 134?
 - (1) 8 tens
 - (2) 80 tens
 - (3) 800 tens
 - (4) 8 000 tens
- 2. Simplify 12 + 7m 8 4m
 - (1) 4 + 3m
 - (2) 4 11m
 - (3) 8 3m
 - (4) 20 + 11m
- 3. 30 books cost \$p. What is the expression for the cost of 2 such books? Express your answer in terms of p.
 - (1) $\$(\frac{30}{p} \times 2)$
 - (2) $\$(30p \times \frac{1}{2})$
 - (3) $\$(\frac{p}{30} \times 2)$
 - (4) $\$(\frac{1}{30p} \times 2)$

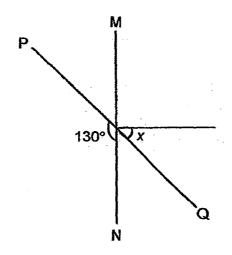
- 4. Find the value of $5 \div \frac{3}{8}$
 - (1)
 - (2) $1\frac{7}{8}$

 - (3) $5\frac{3}{8}$ (4) $13\frac{1}{3}$
- 5. ABCD is a rhombus \angle ABC = 110°. Find \angle ACD.



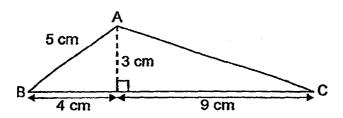
- (1) 35°
- (2) 40°
- (3) 55°
- (4) 70°
- Li Ming has $\frac{4}{5}$ as many stickers as Yee Mun. What is the ratio of the total 6. number of stickers they have to the number of stickers Yee Mun has?
 - (1) 4:9
 - (2) 5:9
 - (3) 9:5
 - (4) 14:9

7. MN and PQ are straight lines. Find $\angle x$.



- (1) 30°
- (2) 40°
- (3) 45°
- (4) 50°

8. What is the area of triangle ABC in the figure?



- (1) 13.5 cm²
- (2) 19.5 cm²
- (3) 22.5 cm²
- (4) 32.5 cm²

9.	What is	the	missing	number	in	the	hox?
IJ.	AAHOLIO	1110	11 HOOH IQ	HUHINGE	** *	CI 1C	SONE

- (1) 5
- (2) 2
- (3) 9
- (4) 4

10. Ribbon A is 12 m long. The total length of Ribbon B and Ribbon C is 12 m long. What is the average length of the 3 ribbons?

- (1) 12 m
- (2) 8 m
- (3) 6 m
- (4) 4 m

- (1) 14
- (2) 15
- (3) 17.5
- (4) 21.25

12. The table below shows the savings of Siti over 4 weeks.

Week	Savings
ang	\$120
2	?
3	\$170
4	\$150

The average savings for the 4 weeks was \$160. How much did she save in Week 2?

- (1) \$200
- (2) \$220
- (3) \$300
- (4) \$320

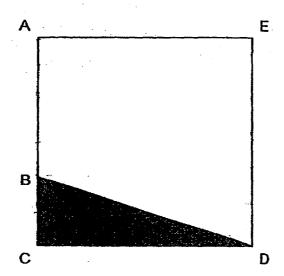
13. A number X is 20% less than another number Y. If Y = 150, what is the value of X?

- (1) 30
- (2) 96
- (3) 120
- (4) 125

14. The ratio of the length of a rectangle to the breadth of the rectangle is 7:4. How much longer is the length of the rectangle than the breadth of the rectangle if the perimeter of the rectangle is 132 cm?

- (1) 18 cm
- (2) 22 cm
- (3) 36 cm
- (4) 44 cm

15. In the figure below, ACDE is a square. The length of BC is $\frac{1}{3}$ of the length of CD. What fraction of the figure is not shaded?



- (1) $\frac{1}{9}$
- (2) $\frac{1}{6}$
- (3) $\frac{5}{6}$
- (4) $\frac{2}{3}$

METHODIST GIRLS' SCHOOL

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PRIMARY 6 CONTINUAL ASSESSMENT 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 6	
Date:	4 March 2014	

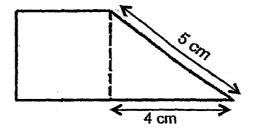
Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 60
TOTAL	/ 100

This booklet consists of 7 printed pages including this page.

	questions which req					(10 marks
16.	2 hundreds + 20 te	nths + 20 hundre	edths is			
			-		<u>-</u>	
•						
						*
	•			Ans:		
				7 1110.	., ., ., ., ., ., ., ., ., ., ., ., ., .	
17.	Mrs Chan bought 1					
	muffins. For every left?	12 muπins, sne	usea zuu g ot	nour. H	ow much t	lour was
	WIL.					
				A		4:
				Ans:		kg
18.	Find the value of 2	1.84 ÷ 8.				
18.	Find the value of 2	1.84 ÷ 8.				
18.	Find the value of 2	1.84 ÷ 8.				
18.	Find the value of 2	1.84 ÷ 8.				
18.	Find the value of 2	1.84 ÷ 8.		Ans:		
18.	Find the value of 2	1.84 ÷ 8.		Ans:		
18.	Find the value of 2	1.84 ÷ 8.		Ans:		
18.	Find the value of 2	1.84 ÷ 8.		Ans:		
				Ans:		
	Find the value of 2			Ans:		
				Ans:		
				Ans:		
				Ans:		~

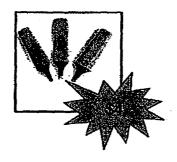
20.	The ratio of the number of pears to the number of oranges is 7:2. Express
	the number of oranges as a fraction of the total number of pears and oranges.

21. The figure below is made up of a square and a triangle. The perimeter of the figure is 18 cm. Find the area of the triangle.



Ans:	(on	n²	

22. Highlighters are sold in packets of 3 highlighters. Each packet is sold at \$4. John has \$30. What is the maximum number of highlighters that he can buy?

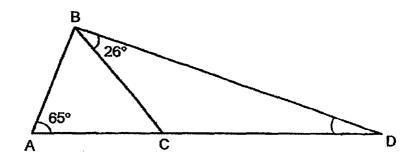


Ans:	

23. 1 742 849 people visited the zoo in 2013. Round off the number of visitors to the nearst thousand.

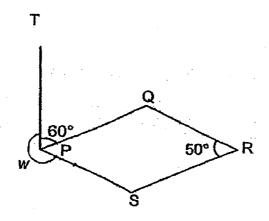
Ans:			 	

24. In the figure below, ACD is a straight line. ABC is an isosceles triangle, AC = BC, ∠BAC = 65°, ∠CBD = 26°. Find ∠CDB.



P	ns:	o

25. In the figure below, PQRS is a parallelogram, \angle QRS = 50° and \angle TPQ = 60°. Find \angle w.



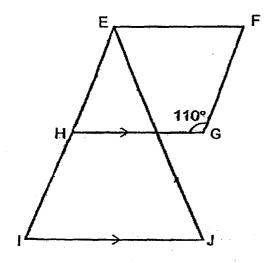
Ans: _____°

answ	tions 26 to 30 carry 2 marks each. Show your working clearly and write your ers in the spaces provided. For questions which require units, give your ers in the units stated.
answ	(10 marks)
26.	Andy had some marbles. 20% of them are blue and the rest are yellow. He gave away half of his blue marbles and 25% of his yellow marbles. What percentage of his marbles were left?
	Ans:%
27.	Jean and Peter had some sweets in the ratio 7:5. After Jean gave away 26 sweets, the ratio became 3:4. How many sweets did they have altogether at first?
	Ans:
28.	The total height of Ali and John is Ym. Ali is 5 cm shorter than John. Express John's height in terms of Y.
	Anscm
	(Go on to the next page)

29. The ratio of the number of pupils in Class A to the number of pupils in Class B is 5:3. 60% of the pupils in Class A wear spectacles while $\frac{1}{3}$ of the pupils in Class B do not wear spectacles. Find the ratio of the number of pupils in Class A who wear spectacles to the number of pupils in Class B who wear spectacles.

Ans:	

30. EFGH is a rhombus and EIJ is an isosceles triangle. HG is parallel to IJ, EI = EJ and $\angle FGH = 110^{\circ}$. Find $\angle IEJ$.



Ans:		٥
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METHODIST GIRLS' SCHOOL

Founded in 1887



PRIMARY 6 CONTINUAL ASSESSMENT 2014 MATHEMATICS

PAPER 2

Total	Time:	1 h	40	min
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INSTRUCTIONS TO CANDIDATES

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

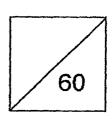
Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

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

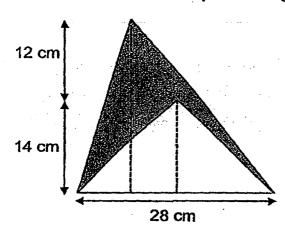
Name:	()
Class:	Primary 6	
Date:	4 March 2014	



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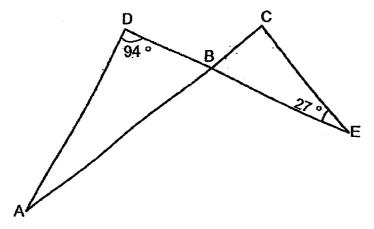
ans		Show your working clearly and write your stions which require units, give your answers in (10 marks)
1	Sam bought 40 pencils at \$4y and 1 cashier \$30 for all the pencils and e receive?	0 erasers at 90 cents each. He paid the rasers. How much change did he
ž		
		Ans: \$
2.		nne had to the number of books Shannon ay 5 of her books, Shannon had twice as books did Anne have at first?
		·
		Ans:
		(Go on to the next page)

3. Find the area of the shaded part in the figure below.



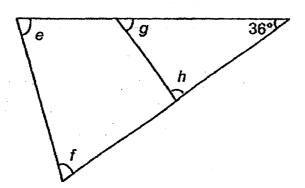
Ans: cm²

4. In the figure below, ABC and DBE are straight lines. ∠ADB = 94°, ∠BCE = 90° and ∠BEC = 27°. Find ∠DAB.



Ans: _____o

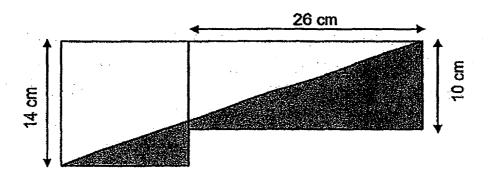
5. In the figure below, find the sum of $\angle e$, $\angle f$, $\angle g$ and $\angle h$.



Ans: °

prov	questions 6 to 18, show your working clearly ar rided. The number of marks available is shown i stion or part-question.			
que	stion of part-question.		(50 mai	ks
6.	$\frac{5}{8}$ of the animals on a farm are goats. $\frac{4}{9}$ of the	remaining anim	als are sheep	
	and the rest are cows. Express the ratio of the number of sheep to the number of cows on the		to the	
			• • •	
		Ans:	[3]	
7.	Miss Lim wants to distribute a packet of sweets sweets to each pupil, she will have 8 sweets left each pupil, she will be short of 68 sweets. How class?	t. If she gives 6	sweets to	
		Ans:	[3]	
		(Go on t	o the next page)	J

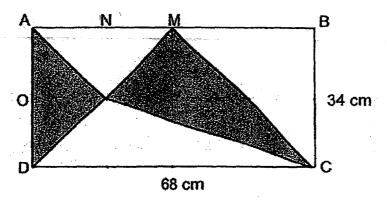
8. The figure below is made up of a rectangle and a square.
What is the ratio of the area of the shaded part to the area of the unshaded part?



Ans: _____[3]

9.	Given that the	I numbers, each gree sum of 2 numbers is naining 2 numbers?			
	·				•••
• •					
				.*	
	A No.	et V			
				Ans:	[3]
10.	Each red pack counted all the	se New Year, Mrs Linket contained a value e red packets and for per of red packets that	e of either \$4 or 5 und that she had	\$6. After pack	ing, she
	•				
				Ans:	[4]
					the next page)

11. The figure below shows a rectangle ABCD. M is the mid-point of AB, N is the mid-point of AM and O is the mid-point of AD. Find the shaded area.

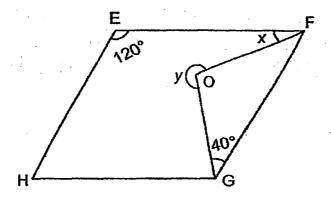


Ans: _____[3]

12		ley is 8a years old. She is 6 years younger than her sister but 33 years nger than her mother.
:	(a)	How old will her sister be in 4 years' time? Give your answer in terms of <i>a</i> .
	(b)	If $a = 3$, what is the total age of Ashley and her mother in 4 years' time?
, t		
		\cdot
• •		
• .		

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

- 13. In the figure below, EFGH is a parallelogram and \angle FEH = 120°. FOG is an isosceles triangle with OF = OG and \angle OGF = 40°.
 - (a) Find $\angle x$.
 - (b) Find $\angle y$.



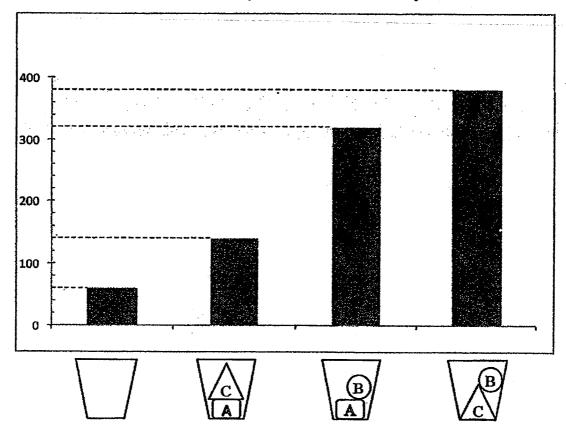
Ans: (a)	[2]
,o. (a)	1-1

(b) _____[2]

- 14. There were 1250 adults in a train at the start of the journey. 40% of the adults were men. At the next train station, some adults boarded the train and then the number of men became $\frac{4}{11}$ of the total number of adults. There were twice as many women as men that boarded the train.
 - (a) How many women boarded the train?
 - (b) How many adults were there in the train in the end?

Ans:	(a)	[3]
	(b)	[1]

15. The graph below shows the mass of a jug when empty and when different combinations of objects A, B and C are placed in the cup. jug
What is the ratio of the mass of object A to the mass of object C?



 [4]

16. Dinesh had some fiction and non-fiction books. The number of fiction books was $\frac{4}{9}$ of the total number of books he had. After he had donated 80 fiction books and 25 non-fiction books, there were 20% as many fiction books as non-fiction books. Find the total number of books Dinesh had at first.

Ans: _____[5]

		an a butter cake. S Virs Raja buy altoge	
			e.
			:
* •			•

18.	Betty had 25% as many red buttons as blue buttons. For every dress she
	made, $\frac{3}{8}$ of the buttons used were red and the rest were blue.
	She used up all her red buttons to make the dresses. She had 28 blue buttons left.

- (a) How many red buttons did she have at first?
- (b) How many dresses did she make?

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

End of Paper

Exam Paper 2014 Answer Sheet

School: METHODIST GIRLS' SCHOOL Subject: PRIMARY 6 MATHEMATICS

Term: CA1

Paper 1

1)	3	6)	3	11)	2	
2)	1	7)	2	12)	1	
3)	3	8)	2	13)	3	
4)	4	9)	4	14)	1	
5)	1	10)	2	15)	3	

16. 202.20

17.0.7

18. 2.73

19.208

20. ²/₉

21.6

22. 21

23. 1743000

24. 24

25. 250

26. **70**

27.96

28. (100y + 5/2)

29. **3 : 2**

30. Angle EHG \rightarrow 180 - 110 = 70 Angle IEJ \rightarrow 180 - (70 x 2) = **40**

Paper 2

1. \$30 - \$4y - \$9 = \$(21 - 4y)

```
2. A:S
```

$$1u \rightarrow 5$$

3.
$$A \rightarrow \frac{1}{2} \times 28 \times 26 = 364 \text{cm}^2$$

 $B \rightarrow \frac{1}{2} \times 28 \times 14 = 196 \text{ cm}^2$
 $364 - 196 = 168 \text{cm}^2$

4. Angle CBE
$$\rightarrow$$
 180 – 27 – 90 = 63°
Angle DAB \rightarrow 180 – 63 – 94 = 23°

6.
$${}^{5}/_{8}$$
 goats = ${}^{15}/_{24}$ goats
 ${}^{4}/_{9}$ x ${}^{3}/_{8}$ = ${}^{1}/_{6}$ = ${}^{4}/_{24}$ sheeps
 ${}^{5}/_{9}$ x ${}^{3}/_{8}$ = ${}^{5}/_{24}$ cows
G: S: C
15: 4: 5

10. No. of \$4	No. of \$6	Total amt of money (\$4)	Total amt of money (\$6)	Total amt (\$4, \$6)
25	35	\$100	\$210	\$310 (wrong)
35	25	\$140	\$150	\$290 (correct)

\$2 x 145 = \$290

Answer: 35 red packets

 $11.34 \div 2 = 17$

$$A \rightarrow {}^{1}/_{2} \times 68 \times 17 = 578 \text{cm}^{2}$$

 $68 \div 2 = 34$ cm

$$B \rightarrow {}^{1}/_{2} \times 34 \times 34 = 578 \text{cm}^{2}$$

$$C \rightarrow {}^{1}/_{2} \times 17 \times 34 = 289 \text{cm}^{2}$$

 $68 \times 34 = 2312 \text{ cm}^2$

$$2312 - 578 - 578 - 289 = 867 \text{cm}^2$$

$$12.(a) 8a + 6 + 4 = 8a + 10$$

(b)
$$8 \times 3 = 24$$

$$24 + 33 = 57$$

$$57 + 24 + 8 = 89$$
 years old

13.(a) Angle
$$X \rightarrow 180 - 120 - 40 = 20^{\circ}$$

 $40 \times 2 = 80^{\circ}$

(b) Angle Y
$$\rightarrow$$
 360 – (180 – 80) = **260**°

14.(a) M:W

40:60

2:3

4:7

 $1250 \div 5 = 250$

 $250 \times 4 = 1000 \text{ women}$

(b) $250 \times 11 = 2750$ adults

15.A + C = 140

$$A + B = 320$$

$$C + B = 380$$

$$140 + 320 + 380 = 840$$

$$840 - (60 \times 3) = 660$$

$$660 \div 2 = 330 (A + B + C)$$

$$330 - (380 - 60) = 10$$
 (A)

$$330 - (320 - 60) = 70$$
 (B)

A:C

10:70

1:7

16.F: NF

4u:5u

-80 -25

1p 5p

F:NF

20u : 5u

-400 -25

5p 5p

```
20u - 400 = 5u - 25
   20u - 5u = 400 - 25
   15u = 375
   1u = 25
   9u = 225 books
17.B → $12
   C → $18
   12 \times 4 = $48
   378 - 48 = $330
   12 + 18 = $30
   330 \div 30 = 11
   11 + 11 + 4 = 26 cakes
18.(a)
          R:B
          25:100
      1u (3p): 4u (12p)
      -3p : -5p
      0 7p
      1u → 3p
      4u → 12p
      7p \rightarrow 28
      p \rightarrow 4
```

 $3p \rightarrow 12$ buttons (b) $12 \div 3 = 4$ dresses