METHODIST GIRLS' SCHOOL (PRIMARY) Founded in 1887



END-OF-YEAR EXAMINATION 2012 PRIMARY 5 **MATHEMATICS**

PAPER 2

Duration: 1h 40 min

INSTRUCTIONS TO CANDIDATES

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

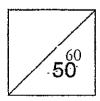
Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

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

Name:	.()
Class:	Primary 5	
Date:	9 October 2012	

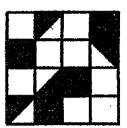


This booklet consists of 15 printed pages including this page.

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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)

1. Zhiqin needs to shade $\frac{5}{8}$ of the grid below. Some parts of the grid are already shaded. How many more squares must she shade?



Ans:	

A jug contains 6.09 litres of water. Raju drank 350 millilitres of the water.
He then used 0.2 litres of it to make an orange drink for his sister. How
much water was left in the jug?

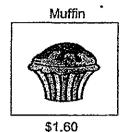
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Score	
	Score

3. Paula's Bakery sells its doughnuts and cakes at a 30% discount and sandwiches at a 50% discount after 8 p.m.

Doughnut

\$1.50





How much do you need to pay if you buy 4 doughnuts, 2 muffins and 2 sandwiches after 8 p.m.? Round off your answer to the nearest dollar.

Ans: \$ _____

4. One-third of a rectangular tank is filled with water. Devi poured in another 3.6 ν of water to make it $\frac{5}{7}$ full. What is the capacity of the tank?

Ans: ml

5. In the figure, ABCF is a rhombus and CDEF is a square. Find ∠AFE.

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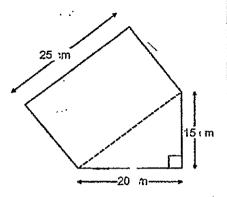
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A	F	
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Ans: ______ •

Score	.

spaces	provid	6 to 18, show yed. The number uestion or part-q	r of marks av				at the	Do not write in this space
6.	many	and Emily made 20-cent coins a Both girls dona	s \$1 coins. D	elia gave \$1	.80 in 50-c	ent and 20		
	(a) (b)	Who donated i How much mo						
	:		. •	·		w., *.		
				Ans			_	
7.		nad \$40. He spe alf as much as ti	•		•			
					÷			
				Ar	ns:		[3]	Score

8. The figure shows the shape of a field that is made up of a rectangle and a triangle. The perimeter of the field is 94 m. What is the area of the field?



Ans: I3

9. In a Formula X race, the total distance covered is 300 km. Given that one lap of the Marina Bay Circuit in Singapore is 5 079 m, how may laps must a Formula One driver cover in the race? Round off your answer to the nearest whole number.

Ans: ______ [3]

ignove

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(a) In the space below, draw a parallelogram ABCD in which AB = 7 cm,
 BC = 5 cm and ∠ABC = 120°. The line AB has been drawn for you. [2]

(b) Measure AC.

4 - E

Ans: (b) _____[1]

Score

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6

(Go on to the next page)

11.	The average mark Jane obtained for four subjects was 82. The score for two subjects were 83 and 74. The difference between the score for the other two subjects was 9. What was the highest mark she obtained?	Do not write in this space
	•.	
	·	
	Ans:[4]	
		Score

Do not write in this space

12. Sharma bought some apples and oranges in the ratio 3:5. $\frac{1}{6}$ of the apples and $\frac{1}{4}$ of the oranges were rotten. After throwing the rotten fruits away, Sharma bought another 50 apples and 20 oranges. She then had an equal number of fruits left. How many fruits did she have at first?

Ans: ______[4]

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13. In the figure, PQT and RST are identical triangles. PT=QT=RT=ST and \angle RQT = 68°.

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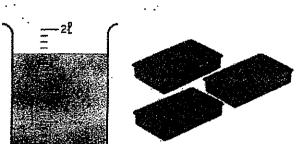
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Ans: _____

____[3]



14. The beaker below contains some water. The water is then poured into 3 identical ice trays. Each ice tray can hold 15 cubes of sides 3 cm.



- (a) How much water can one tray hold?
- (b) How much water was left in the beaker after all the three ice trays have been completely filled?
 (1 litre = 1 000 cm³)

Ans:	(a)	[2]

Score

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METHODIST GIRLS' SCHOOL

10

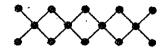
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15. Gail used dots and sticks to create patterns as shown below. She noticed there was a square in Pattern 1 and 2 squares in Pattern 2. She recorded the number of dots and sticks used in the table shown below.







Pattern 1

Pattern 2

Pattern 3

	Number of dots	Number of sticks	Number of squares
Pattern 1	8	8	1
Pattern 2	11.	12	2
Pattern 3	14	16	3
Pattern 4	(a)	(a)	4
•			
•			

(a) Complete the table above for Pattern 4.

[1]

(b) She made a pattern using 35 dots. How many sticks did she use?

(c) How many dots and sticks are needed altogether to form 13 squares?

ns: (b)	[2]	
(c)	[2]	Score

16. The price of an adult air ticket to Korea is \$990. The air ticket price for children below 12 years of age is $\frac{4}{5}$ of the cost of an adult ticket. Mr Lim bought tickets for himself, his wife, his mother and two children, aged 15 and 11. He used $\frac{3}{4}$ of his monthly salary to pay for the tickets. What was Mr Lim's monthly salary?

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Ans:	[5]	Score

METHODIST GIRLS' SCHOOL

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(Go on to the next page)

17. Mrs James baked some chocolate and banana muffins in the ratio 8:5 respectively. John ate $\frac{1}{4}$ of the chocolate muffins, while Jane ate $\frac{1}{3}$ of the banana muffins.

Do not write in this space

- (a) What was the ratio of the the chocolate muffins left to the banana muffins left?
- (b) Mrs James then baked another 60 walnut muffins, there was an equal number of banana and walnut muffins. How many muffins were there in the end?

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

Score	

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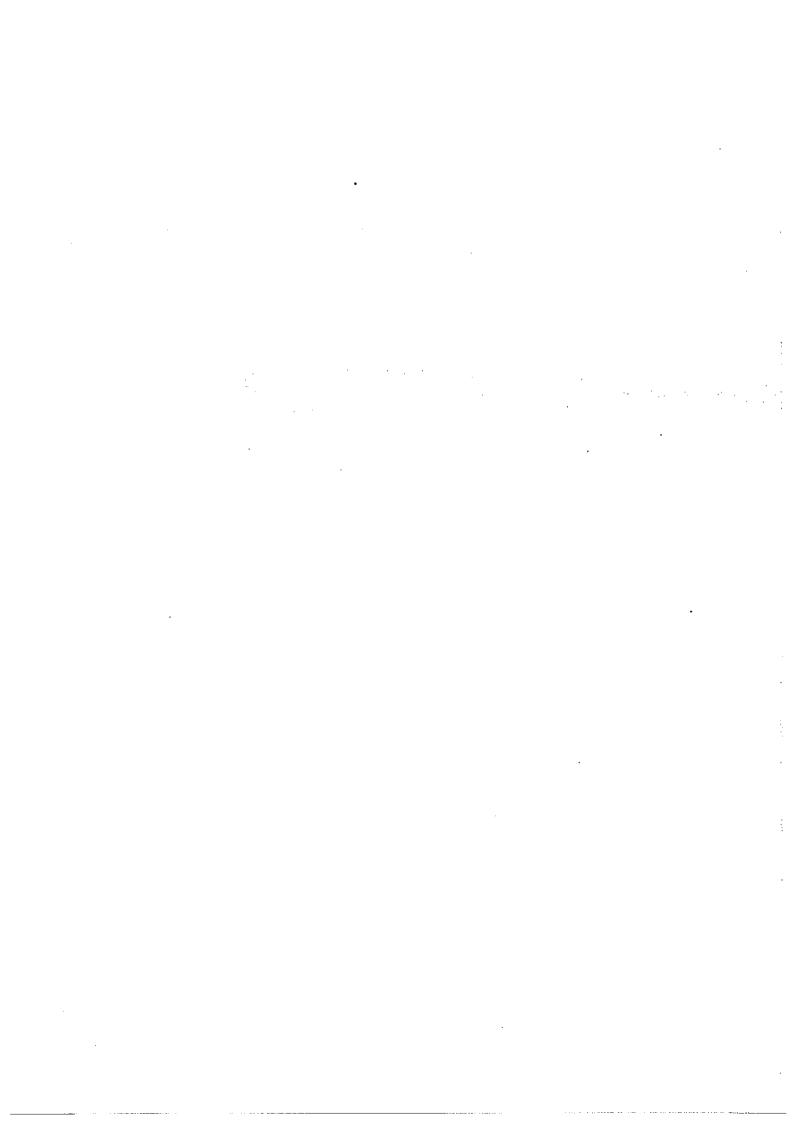
- 18. Jane has a box which contained red, white and blue buttons. There were 150 red buttons and an equal number of white and blue buttons. After she added 25% more blue buttons into the box, the number of blue buttons increased to 100.
 - (a) How many white buttons were in the box at first?
 - (b) After Jane has given away 38 red buttons, what percentage of her red buttons did she have left? Give your answer correct to 1 decimal place.

[3]	-
[2]	
	Score

METHODIST GIRLS' SCHOOL

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End of Paper



Answer Ke

SCHOOL: MGS

SUBJECT: PRIMARY 5 MATHEMATICS

TERM : SAZ

			a . F	2 5.			u	verante b) W.	1 .			
11.	Q2·	Q3	04	Q5	Q6	07	Ò8	Q9	Q10	011	012	1013	014	015
2	4	2	4	4	2	2	1	1	2	4	4	2	3	4

$$16)8 \times 9 = 72$$

$$9 \times 9 = 81$$

$$81 + 7 = 88$$

$$18)35/120 = 7/24$$

$$19)28 + 7 = 35$$

$$2/7 = 10/35$$

$$10 - 2 = 8$$

$$20)18 \div 2 = 9$$

$$9 \times 5 = 45$$

$$21)0.004g \times 50 = 0.2g$$

$$(22)38 \times 4 = 152$$

$$152 - 40 = 112$$
kg

$$(23)107/100 \times 25 = $26.75$$

$$180^{\circ} - 90^{\circ} - 23^{\circ} = 67^{\circ}$$

$$26)4 \times 5 \approx 20$$

$$60c \times 20 = 1200c = $12$$

$$$10.20 \div 4 = $2.55$$

$$28)42 \div 7 = 6$$

$$6 \times 6 = 36$$

$$6 \div 3 = 2cm$$

29)1:8

$$30)20 \times 25 \times 15 = 7500$$

$$60 \times 25 \times 50 = 75000$$

75000 + 7500

82500cms

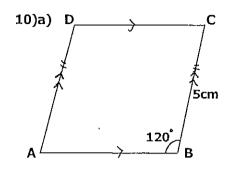
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page 1

Paper 2

8)94 - 25 - 20 - 15 = 34
34÷2 = 17
25 x 17 = 425

$$\frac{1}{2}$$
 x 20 x 15 = 150
425 = 150 = 575m₂



b)10.1cm

11)82 x 4 = 328

$$328 - 83 - 74 = 171$$

 $171 - 9 = 162$
 $162 \div 2 = 81$
 $81 + 9 = 90$ marks

```
14)a)3 \times 3 \times 3 = 27
     27 \times 15 = 405 \text{cm}_3
   b)1.6L = 1600cm<sub>3</sub>
     405cm_3 \times 3 = 1215cm_3
     1600cm_3 - 1215cm_3 = 385cm_3
15)a)17 20
   b)35 - 8 = 27
     27 \div 3 = 9
     9 + 1 = 10 (pattern no)
     10 - 1 = 9
     9 \times 4 = 36
     36 + 8 = 44
    c) 13 \times 4 = 52
      52 + 4 = 56 (sticks)
      56 - 8 = 48
      48 \div 4 = 12
      12 + 1 = 13 (pattern no)
      13 - 1 = 12
      56 - 12 = 44
      44 + 56 = 100 dots and sticks
16)4/5 \times $990 = $792
   $990 \times 4 = $3960
   $3960 + $792 = $4752
   $4752 \div 3 = $1584
   $1584 \times 4 = $6336
17)a) C: B
     8: 5
   24:15
    18:10=9:5
   b)60 \div 10 = 6
      18 + 10 = 28
      28.6 = 168
      168 + 60 = 228
18)a)125%→100 buttons
     100%→80 buttons
   b)150 - 38 = 112
      112/150 \times 100\% \approx 74.66\% \approx 74.7\%
```