

2012 SEMESTRAL ASSESSMENT 1 PRIMARY 4

MATHEMATICS

DURATION: 1 H 45 MIN

DATE: 14 May 2012

INSTRUCTIONS

Do not open the booklet until you are told to do so. Follow all instructions.
Answer all questions.

Name	:	()	
Class	: Primary 4	Marks:	
			100
Parent's Sig	gnature		
Date			

Section A

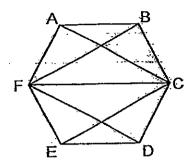
Questions 1 to 14 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet with a 2B pencil.

1	In 10	296, what is the value of the digit 2?
	(1)	20
	(2)	200
	(3)	2000
	(4)	20 000
2	Which	of the following numbers is 15 010 when rounded off to the nearest 10?
	(1)	15 106
	(2)	15 016
	(3)	15 014
	(4)	15 004
3	Comp	elete the number pattern.
		23 114 , 22 614 , 22114 , , 21 114
	(1)	21 314
	(2)	21 414
	(3)	21 514

(4)

21 614

4 In the figure, which line is perpendicular to CD?



- (1) AF
- (2) ED
- (3) FD
- (4) FC
- When a number is divided by 8, the quotient is 184. What is this number?
 - (1) 13
 - (2) 23
 - (3) 872
 - (4) 1472
- 6 54 is not a multiple of _____
 - (1) 9
 - (2) 6
 - (3) 3
 - (4) 4

- 7 There were 298 passengers who boarded the cable car to Sentosa in the morning. Each cabin could carry 6 passengers. What is the least number of cabins needed to carry all the passengers?
 - (1) 48
 - (2) 49
 - (3) 50
 - (4) 51
- 8 Express $3\frac{4}{12}$ in its simplest form.
 - (1) $\frac{1}{3}$
 - (2) $\frac{40}{12}$
 - (3) $3\frac{1}{3}$
 - (4) $3\frac{2}{6}$
- Johan has 40 marbles. He gave $\frac{4}{5}$ of it to his cousin. How many marbles had he left?
 - (1) 8
 - (2) 10
 - (3) 32
 - (4) 50

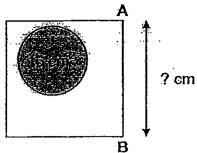
Mr Cheng finished polishing and waxing his car at 1.25 p m. He took $1\frac{1}{10}$ h to wash and $2\frac{1}{4}$ h to polish. What time did he start?

- (1) 10.00 a.m.
- (2) 10.04 a.m.
- (3) 10.14 a.m.
- (4) 10.46 a.m.

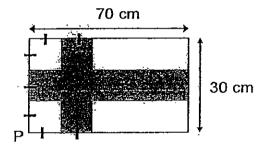
11 What is the sum of $\frac{1}{5}$ and $3\frac{1}{2}$ in the simplest form?

- $(1) \frac{7}{10}$
- (2) $3\frac{2}{7}$
- (3) $3\frac{4}{5}$
- (4) $3\frac{7}{10}$

The figure below is made up of a square and a circle. The area of the shaded circle is 16 cm². Given that the area of the square is 4 times the area of the circle. What is the length of AB?



- (1) 64 cm
- (2) 16 cm
- (3) 8 cm
- (4) 4 cm
- Look at the composite figure below. What is the perimeter of the shaded figure?



- (1) 100 cm
- (2) 200 cm
- (3) 360 cm
- (4) 900 cm

- 14 $\langle \cdot \rangle \times \langle \cdot \rangle = 4$
 - \rightarrow + \rightarrow = B

If A is a multiple of B, what is the possible value of \bigcirc ?

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

Que	tion B stions 15 to 34 carry 2 marks each. Write your answers in the spaces provided. For
ques	tions which require units, give your answers in the units stated. (40 marks)
15	Write forty-three thousands and fourteen tens in figures.
	Ans:
16	Find the value of 2001 – 549.
	Ans:
	Ans.
17	A number between 6 and 11 is a multiple of 4. What is the number?
	Ans:
18	Form the smallest five-digit <u>even</u> number using all the digits below.
	0, 7, 8, 2, 5
	Ans:
Da Mai	th SA1 2012

19 Which two of the fractions below are equivalent to $\frac{6}{8}$?

$$\frac{3}{4}$$
, $\frac{4}{6}$, $\frac{10}{12}$, $\frac{12}{16}$

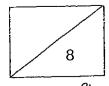
Ans:	
------	--

21 What is the remainder when 1145 is divided by 3?

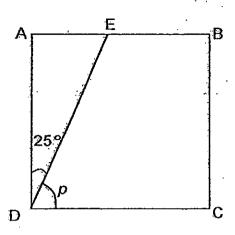


22 Write $\frac{57}{9}$ as a mixed number in its simplest form.





23 In the figure below, ABCD is a square. \angle ADE = 25°. Find the value of \angle p.

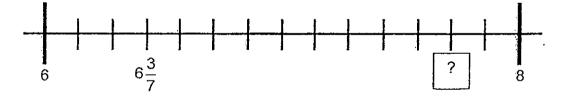


Ans:			<
/ WIQ.	 	·	

In a car park, there are 35 cars and motorbikes. If there are 120 wheels altogether, how many cars are there?

Ans: ____

25 What is the missing mixed number in the box?

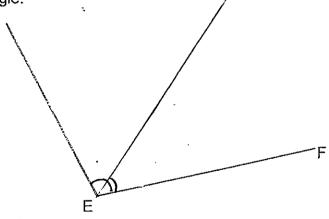


Ans: _____

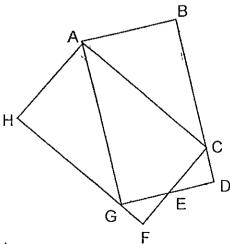
What is the missing number in the box?

Using a protractor and pencil, construct an angle such that ∠DEF = 110°. 27

Mark and label the angle.

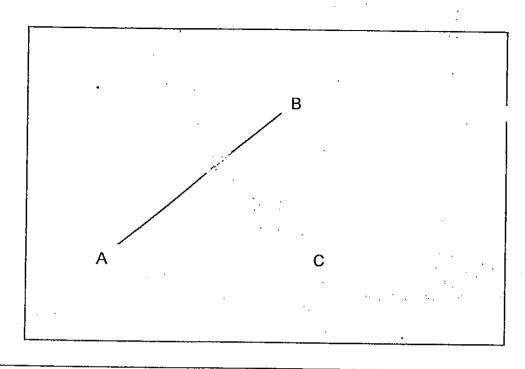


28 How many pairs of perpendicular lines are there in the diagram shown below?

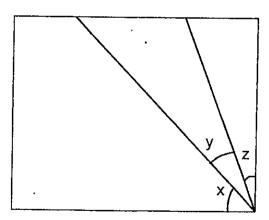


Ans: _____

29 Draw a line perpendicular to the line AB passing through point C within the box and label it CD.

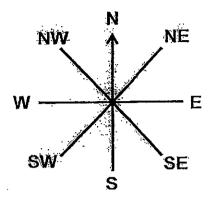


The figure, not drawn to scale, shows a rectangle. If \angle y is 25° and the size of \angle x is twice the size of \angle y, find the size of \angle z.



Ans: _____ °

Jasmine is standing in the middle of the 8-point compass facing North-West. Where will she be facing if she makes a $\frac{3}{4}$ - turn clockwise?



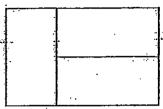
Ans: _____

32 The perimeter of a rectangle is 34 cm. If the breadth is 8 cm, find its area.

Ans: ____cm²

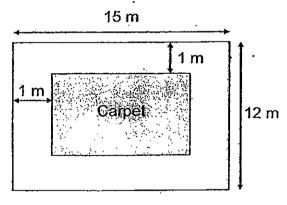
The figure below, not drawn to scale, is made up of 3 identical rectangles.

The total area is 54 cm². The breadth of each rectangle is 3 cm. What is the perimeter of the figure?



Ans: ____ cn

The floor of a rectangular room is 15 m by 12 m. What is the area of the carpet if there is a border of 1 m around it?



Ans: _____m²

Section C

Questions 35 to 38 carry 3 marks each. Questions 39 to 43 carry 4 marks each. Show your working clearly in the space provided below each question and write your answers in the spaces provided.

(32 marks)

\$6427 was shared among Paul, Tom and Dick Paul received \$235 less than Tom and Dick received the same amount as Paul. How much money did Tom receive?

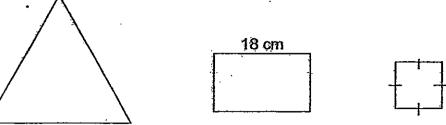
Ans: _____[3]

Sammy has thrice as many biscuits as Meilin. The total number of Sammy's and Meilin's biscuits is twice that of Amy's. The three of them have a total of 210 biscuits. How many more biscuits does Sammy have than Meilin?

Ans:____[3]

square is 7 cm and rectangle?	•			
-	• •			
		•		
•				
		·.	••	
				•
			•	
		•	•	
			• • • •	
		·		
			•	•
			Ans:	
· · · · · · · · · · · · · · · · · · ·				
Chocolates did be	STAIT WITH AN TR	a first day?	3 days, how many	of such
chocolates did he	stan with on th	e first day?	· o days, now many i	of such
chocolates did he	siait with on th	ne first day?	o days, now many	of such
chocolates did he	sian with on th	ne first day?	· · ·	of such
cnocolates did he	sian with on th	ne first day?	o uays, now many	of such
chocolates did he	sian with on th	ne first day?	o uays, now many	of such
chocolates did he	sian with on th	ne first day?	· · ·	of such
chocolates did he	sian with on th	ne first day?	o uays, now many	of such
chocolates did he	sian with on th	ne first day?	· ·	of such
cnocolates did he	sian with on th	ne first day?		of such
chocolates did he	sian with on th	ne first day?	o uays, now many	of such
chocolates did he	sian with on th	ne first day?	3 days, now many	of such
chocolates did he	sian with on th	ne first day?	o uays, now many	of such
chocolates did he	sian with on th	ne first day?	3 days, now many	of such
chocolates did he	SIAR WITH ON IT	ne first day?		
chocolates did he	Star With on th	ne first day?	Ans:	[3
cnocolates did he	SIAR WITH ON IT	ne first day?		
cnocolates did he	Star With on th	ne first day?		
cnocolates did he	Star With on th	ne first day?		

A piece of wire, 144 cm long, is cut into two equal pieces, A and B. Wire A is bent to form a triangle. Wire B is cut into two pieces again and used to form a rectangle and a square as shown in the figure below.



The perimeter of the triangle is 3 times the perimeter of the square. Find the breadth of the rectangle.

Ans:		[4
------	--	----

At a party, $\frac{3}{7}$ of the people attending were adults. $\frac{2}{5}$ of the children were boys. If there were 48 girls, how many people were there at the party?

Ans : _____[4]

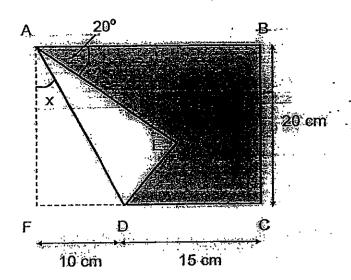
41 Lydia makes patterns using black and white beads and match sticks as shown below.

	Pattern 1	Pattern 2	Pattem-3	- · · ·	Pattern 6	 Pattern 305
			-000			
,						
White Beads	1	2	3		(a) (i)	٠.
Black Beads	4	. 6	8			
Match sticks	:4:	6	8		(a) (ii)	?

- (a) Complete the table. [2]
- (b) How many matchsticks does she need to complete Pattern 305?

Ans:	(h)		ī	2	1
M112.	(U)	 ******	L	_	J

42



A rectangular sheet of paper ABCF is folded as shown in the figure below. The figure above is not drawn to scale. Given that $\angle BAE = 20^{\circ}$, BC = 20 cm, CD = 15 cm and DF = 10 cm,

- a) find $\angle x$ and
- b) the area of the shaded part.

	•	$\Gamma \cap \Gamma$
Ans: (a)		[2]
, 1110. 34)		

91

43. Linda had 424 beads and Mary had 188 beads. After each of them gave away an equal number of beads, Linda had thrice as many beads left as Mary.
(a) How many beads did they have altogether?
(b) How many beads did Linda give away?

Ans: (a) [1]

(b) _____[3]

4

End-of-paper

Please check your work carefully.



33)30cm

EXAM PAPER 2012

SCHOOL: AITONG SUBJECT: PRIMARY 4 MATHEMATICS

31)South-West

TERM : SA1

30)15°

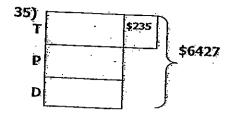
		·	
Q1 Q2 Q3	Q4 Q5 Q6		
2 3 4	3 4 4	3 3 1 2 4 3 2 2	
15)43140	16)1452	17)8 18)20578 19) 3/4 and 12/6	:
20)13131	21)2	22)61/3 23)65° 24)25	
25)75/7	26)2	27) \ 28)8	
29) D			
	В	110° F	
. /~	C	E	

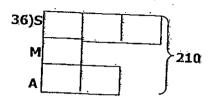
Page 1 to 3

32)72cm2

page 1

34)130m2





$$210 \div 6 = 35$$

1unit = 35 biscuits
 $35 \times 3 = 105$
 $105 - 35 = 70$

39)
$$144 \div 3 = 48$$

 $18 + 18 = 33$
 $48 - 36 = 12$
 $12 \div 2 = 6$

40)3/5-----Girls

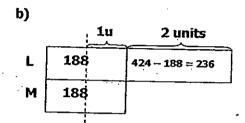
$$48 \div 3 = 16$$

 $16 \times 5 = 80$ (no.of children)
 $1 - 3/7 = 4/7$ (fraction of children)
 $80 \div 4 = 20$
 $20 \times 7 = 140$

41)a)i)6 ii)14 b)305 x 2 = 610 610 + 2 = 612 42)a)90 - 20 = 70

70÷2 = 35
b)Area of ABCF = 20 x 25 = 500
area of △A = D + area of △ADE
= area of rectangle
= 10 x 20 = 200
Area of shaded part = 500 - 200 = 300

43)a)424 + 188 = 612



$$236 \div 2 = 118 \text{ (1unit)}$$

 $118 - 118 = 70$

