

SECOND SEMESTRAL EXAMINATION 2014

PRIMARY 5 MATHEMATICS PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20	
Booklet B	/ 20	

Paper 1 Total: / 40

Name:	()
Class: Primary 5 ()	
Date: 30 October 2014		
Parent's Signature:		

Any query on marks awarded should be raised by <u>7 November 2014</u>. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS. YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

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.

(20 marks)

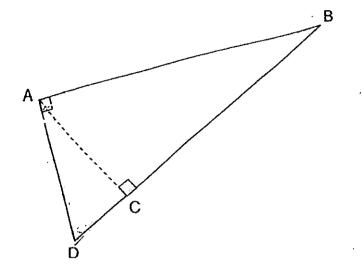
- 1 Round off 291 548 to the nearest thousand.
 - (1) 291 000
 - (2) 291 500
 - (3) 292 000
 - (4) 300 000
- 2 Find the value of $\frac{1}{3} + \frac{3}{5}$
 - (1) $\frac{4}{8}$
 - (2) $\frac{3}{15}$
 - (3) $\frac{4}{15}$
 - (4) $\frac{14}{15}$

3 Find the missing number in the box.

$$\frac{2}{9} \div 4 = \square$$

- (1) $\frac{1}{18}$
- (2) $\frac{1}{9}$
- (3) $\frac{8}{9}$
- (4) $1\frac{1}{18}$
- 4 Find the value of $1.7 \times 300 \div 1000$.
 - (1) 0.0501
 - (2) 0.051
 - (3) 0.501
 - (4) 0.51

5 ABD is a triangle. Given that the height of triangle ABD is AD, find its corresponding base.



- (1) AB
- (2) AC
- (3) BC
- (4) BD
- 6 Which one of the following ratios is **NOT** equivalent to 8:28?
 - (1) 4:14
 - (2) 6:26
 - (3) 12:42
 - (4) 20:70

7	A cul volur	boid has a square base of side 5 cm and a height of 6 cm. me.	Find its
	(1)	30 cm ³	
	(2)	125 cm ³	
•	(3)	150 cm ³	**
	(4)	180 cm ³	-
8	Expre	ess 2450 cm³ in litres.	1111
	(1)	0.245 <i>l</i>	
·	(2)	2.45 <i>l</i>	
	(3)	24.5 <i>l</i>	
	(4)	245 <i>I</i>	
9		nting machine can print 480 books in 10 days. Each pages. At this rate, how many pages can it print in one	
	(1)	480	
	(2)	4800	
	(3)	48 000	
	(4)	480 000	

- The usual price of a laptop was \$2400. During a sale, Michelle bought it at a discount of 15%. How much was the discount?
 - (1) \$144
 - (2) \$360 -
 - (3) \$2040
 - (4) \$2760
- Arrange the following fractions from the biggest to the smallest:

$$\frac{9}{7}$$
, $1\frac{2}{5}$, $\frac{5}{3}$, $\frac{11}{9}$

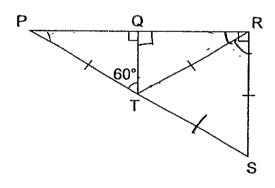
- (1) $\frac{5}{3}$, $1\frac{2}{5}$, $\frac{9}{7}$, $\frac{11}{9}$
- (2) $1\frac{2}{5}$, $\frac{5}{3}$, $\frac{9}{7}$, $\frac{11}{9}$
- (3) $\frac{9}{7}$, $\frac{11}{9}$, $1\frac{2}{5}$, $\frac{5}{3}$
- (4) $\frac{11}{9}$, $\frac{9}{7}$, $1\frac{2}{5}$, $\frac{5}{3}$

12 Find the average of these numbers.

15.3, 12.6, 13.1, 0, 15

- (1) 6.3
- (2) 8.5
- (3) 11.2
- (4) 14

In the figure below, PRS and QRT are triangles. PT = RT = RS and $\angle PTQ = 60^{\circ}$. Identify and name the equilateral triangle.



- (1) PQT
- (2) PRT
- (3) RST
- (4) PRS

14		rectangular box, 5 cm long and 6 cm wide, has a volume of 300 cm ³ . ind the maximum number of 2-cm cubes that can be put into the box.				
	(1)	30				
	(2)	37	`			
	(3)	38	•			
	(4)	39				

15 Find the missing number in the number pattern below.

3, 6, 5, 10, 9, ?, 15, 24

- (1) 8
- (2) 12
- (3) 16
- (4) 19

Nam	ne:	()	Class: Pr	5()
P5 S	SA2 2014				
PAP	ER 1 (BOOKLET B)				
	stions 16 to 25 carry 1 mark ded. For questions which red				
sigic	u.				(10 marks)
16	Find the value of (15 + 24 ÷ 3	3 × 2) — 4 ×	: 3.		
				,	3
			Ans: _		
17	Find the value of $\frac{5}{6} \times \frac{3}{8}$.				
	Give your answer as a fractio	n in the sin	nplest fo	m.	
			A		
			Ans: _		

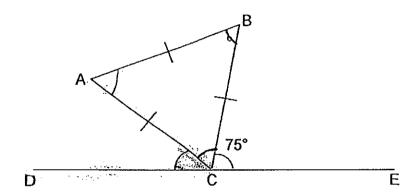
. . . .

		Ans:	%
23	Express 3.4 as a percentage.		
		Ans:	%
22	Peter spent \$150 on a watch and s percentage of his money did he ha		ney left. What
		Ans:	
			, .
21	A rectangular tank measures 30 capacity of the tank in litres.	cm by 40 cm by 50	cm. Find the

24 Find the value of 35% of \$220.

Ans:	\$	
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The figure below is not drawn to scale. ABC is an equilateral triangle. DCE is a straight line and \angle BCE = 75°. Find \angle ACD.

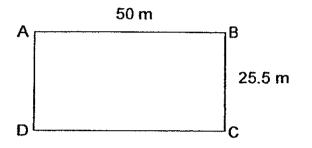


Ans: _____

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

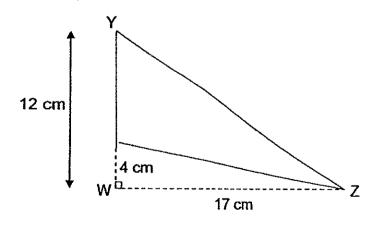
(10 marks)

ABCD is a rectangle. Given that AB = 50 m and BC = 25.5 m, find the perimeter of rectangle ABCD in centimetres.



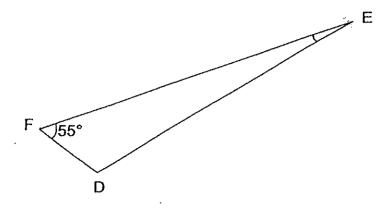
m

In the figure below, WY = 12 cm, WX = 4 cm and WZ = 17 cm. Find the area of triangle XYZ.



Ans:

The figure below is not drawn to scale. DEF is a triangle. \angle FED is $\frac{1}{4}$ of \angle EDF. Find \angle FED.

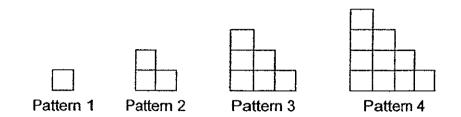


Ans: _____

29 Five apples are sold for \$7.65. Find the cost of 1 apple. Give your answer correct to the nearest dollar.

Ans: \$_____

30 Study the patterns below.



Pattern	Number of squares
1	1
2	3
3	6
4	10
:	:
10	?

How many squares are there in pattern 10?

Ans:	 	

END OF PAPER





SECOND SEMESTRAL EXAMINATION 2014

PRIMARY 5 MATHEMATICS PAPER 2

DURATION: 1 HOUR 40 MINUTES

	1 4 7 1 1 1 1 1					
	GRAND TO	OTAL		/ 100		
Name:		()			
Class:	Primary 5 ()				
Date:	30 October 2014					

Paper 2 Total

Parent's Signature:

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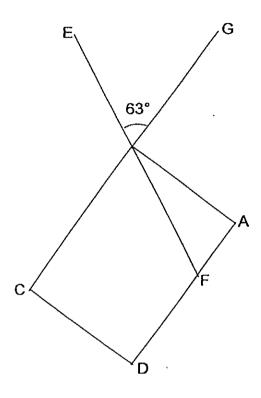
ANSWER ALL QUESTIONS. YOU ARE ALLOWED TO USE A CALCULATOR.



PAPER 2

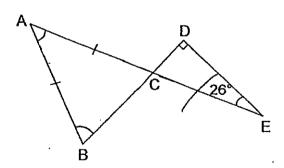
provi Mark	estions 1 to 5 carry 2 marks each. Show you rided for each question and write your answ ks will be awarded for the relevant number ch require units, give your answers in the units	vers in t r senter	the spac	es provide	d.
-				(10 marks	3)
1	Sweets are sold at \$8.40 for every $1\frac{1}{2}$ kg.	How	many kil	ogrammes	of
	sweets can be bought with \$19.60? Gir	ve your	answer	as a mixe	∍ď
	number in the simplest form.				
	•				
	Ar	ns:	- W-10-1	k	g
2	At a fruit stall, the ratio of the number of app 3:7. There are 28 more pears than a apples at the fruit stall.				
	An	es:	-	-	
3	Fiona deposited \$58 400 in the bank for interest rate of 1.35% per year. How mu from the bank for a year?				
	An	s: \$			

The figure below is not drawn to scale. EBF and CBG are straight lines. ABCD is a rectangle and ∠EBG = 63°. Find ∠ABF.



Ans: _____

The figure below is not drawn to scale. ABC and CDE are triangles. ACE and BCD are straight lines and AB = AC. Find \angle BAC.



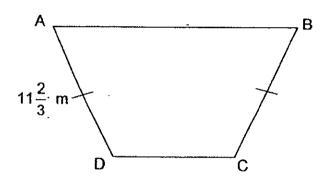
Ans:

For questions 6 to 18, show your working clearly in the space provided for each question 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. Marks will be awarded for the relevant number sentences.

(50 marks)

In the figure below, the length of AD is $11\frac{2}{3}$ m and AD = BC. The length of DC is $\frac{5}{6}$ m shorter than BC. The length of AB is $4\frac{8}{9}$ m longer than AD. Find the perimeter of the figure ABCD in metres. Give your answer as a mixed number in the simplest form.



Ans:	17
ruto.	

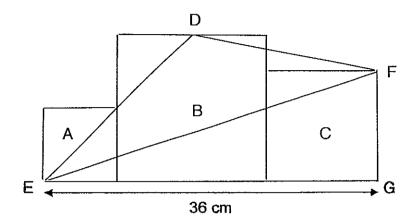
7	The ratio of the number of Tim's marbles to the number of Sherry's marbles was 7:5. After Tim had given 36 marbles to Sherry, the ratio of the number of Tim's marbles to that of Sherry's became 1:3. How many marbles did Sherry have in the end?
	Ans:[3]
8	A rectangular tank measuring 14 cm by 18 cm by 21 cm was filled with some water. After 3.528 litres of water were poured into the tank, it became completely full. What fraction of the tank was filled before the water was poured in?

Ans:

[3]

9	In the space below, draw a trapezium ABCD in which AD is parallel to BC, AD = 8 cm, BC = 5 cm and ∠ABC = 137°. The line AB has been drawn for you. Measure and write down the length of CD. Label your drawing.
	. 4
	[2]
	Ans: CD =[1]
10	The average height of a group of boys was 175 cm. After one boy left the group, the average height of the remaining boys became 178 cm. The height of the boy who left the group was 154 cm. Find the number of boys in the group at first.
	Ans:[3]

The figure below is made up of three squares, A, B and C. The ratio of the length of the sides of squares, A, B and C is 2:4:3. Given that EG = 36 cm, find the area of triangle DEF.



Ans: [4]

12	In Februar decreased	, Jean spent ry, she incre by 15% as nd February	eased her compared	spending I to Janua	by 35% ary. Her	and her sa monthly sal	avings ary ir
						سجية	
			•				

Ans:

[4]

	``
	,. ``
	1
Ans:	

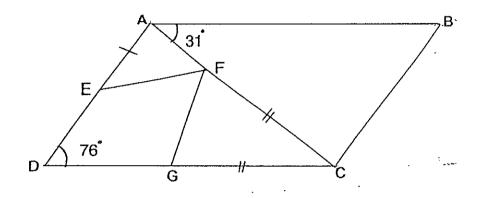
14	In a museum tour	, the ratio of the number of adults to the number of
	children was 1:4.	The ratio of the number of boys to the number of girls
	was 3:5. There	were thrice as many women as men.

- (a) Find the ratio of the number of men to the number of boys in the museum tour.
- (b) Halfway through the tour, 132 girls left the museum. As result, the number of girls remaining in the tour was twice the number of women. How many children were there at the end of the tour?

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

The figure below is not drawn to scale. ABCD is a parallelogram. AFC is a straight line. AF = AE and CF = CG. \angle ADG = 76° and \angle BAC = 31°.

- (a) Find ∠DEF.
- (b) Find ∠EFG.



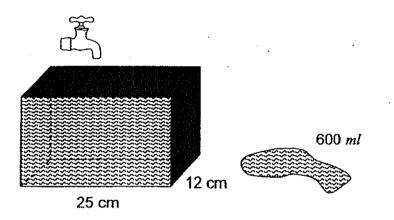
Ans:	(a)	 [2]
		 	-

16	Arun, Belle and Chandra had a total of 240 marbles. Arun gave 25
	marbles to Belle. Belle then gave 49 marbles to Chandra. Finally
	Chandra gave 7 marbles to Arun. In the end, they had an equal number
	of marbles.

- (a) How many marbles did Arun have at first?
- (b) Chandra used half of his pocket money he had at first to buy all the marbles at 30 cents each. How much was his pocket money?

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

- 17 Terry had a rectangular tank with a base measuring 25 cm by 12 cm. He placed the empty tank under a running tap. Water from the tap flowed at a rate of 1.2 litres per minute into the tank. After the tap was turned on for 5 minutes, he observed that the tank was filled with water to its brim and 600 millilitres of water had spilled out of the tank.
 - (a) Find the height of the rectangular tank.
 - (b) Terry poured some water out from the tank to fill 3 identical pails. The height of the water in the rectangular tank decreased to 4 cm. How many litres of water did each pail contain? (1 litre = 1000 cm³)



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

Bernadette had a sum of money. She gave $\frac{2}{7}$ of her money and another \$105 to her parents. Then she gave $\frac{4}{9}$ of the remaining money to her sister. She had $\frac{1}{3}$ of her original amount of money left. How much did she have at first?

5]

END OF PAPER



EXAM PAPER 2014

LEVEL

: PRIMARY 5 SCHOOL : NANYANG

SUBJECT : MATHS

TERM

: SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	4	1	4	1	2	3	2	3	2	1	3	3	1	3

Q16 19

Q17

Q18 2:5

Q19 16

Q20 88cm³

Q21 60*t*

Q22 40%

Q23 340%

Q24 \$77

Q25 45°

Q26 15100cm

68cm² **Q27**

Q28 25°

Q29 \$2

Q30 55



Q4
$$90^{\circ} - 63^{\circ} = 27^{\circ}$$

Q8
$$|4 \times 18 \times 21| = 5292$$

 $3.5781 = 3528 \text{ m} 1$
 $= 3628 \text{ (m}^3$
 $5292 - 3528 = 1764$
 $\frac{1764}{5292} = \frac{1}{3}$

9×9=81





$$y^{n^{h}}$$

$$y^{n$$

Q10 |78-|75=3 |178-|54=24 |24:3=8

Q11

4-2-2 Area of 1 -> 8 x 8= 64 4-3=1 21913= 9 Area of B -> 11x16=256 12 x 16=172 ln--->36 -9=4 19712562448 448+64=812 34--> 4X3=12 文X 8X8=37 44-16 艺X 36 X12 = 216 24-> 4x2=8 1 X 4 X 20 = 40 2+ 3=5 32X2=64 5u-> 4x5=20 641216140=320 512-320=192

Q12 \$840 x 35% = \$295 \$294 ÷ 15 x100 = \$1960 \$1960 + \$840 = \$2800

Q13

5 A + 80-> \$11.25

3A +90-> \$16.25-60.20 = \$16.05

8X5=10 8X5=11.

16-9=7

10-3=7

\$16-26XZ=\$32.50

7A+70->\$32.60-\$16.95-\$16.95 (A+10->\$16:46-7-\$2.35

9-5-3

5A+50->\$7.36x5=\$11.75

30 -> \$10.25 - \$11.75 = \$4.50

10 -> \$ 4.50 = 3=\$1.50

80 -> \$1.50 X8= \$12

5A -> \$16.25-\$122\$4.25

IA -> \$4.26+5=\$0.85

\$1.50 -\$0.85 = \$0.65



Q14

Q15

$$(80^{\circ}-71^{\circ}=104^{\circ})$$
 $104^{\circ}-31^{\circ}=73^{\circ}$
 $LBAE \longrightarrow 31^{\circ}+76^{\circ}=101^{\circ}$
 $LAEF \longrightarrow 107^{\circ}\div 2=53.5^{\circ}$
 $LDEF \longrightarrow 13^{\circ}+53.5^{\circ}=126.5^{\circ}$
 $LCFG \longrightarrow (180^{\circ}-31^{\circ})\div 2=74.5^{\circ}$
 $LEFG \longrightarrow (80^{\circ}-74.5^{\circ}-53.5^{\circ}=52^{\circ}$

Q16

A [7] 25]

B [25] 49]

C [49]

(a)
$$240 \div 3 = 80$$

 $70 - 7 + 25 = 98$

(b) $$11.40 \times 2 = 22.80



(b)
$$5400 \pm 25 \pm 17 = 18$$
 $18-4=14$ $14\times25\times12=4200$ $4200 \pm 3=1400$ $1400 (m^2=1.4)$

Q18

$$1-\frac{1}{3}-\frac{2}{4}=\frac{8}{21}$$

 $9-4=5$
 $\frac{6}{9}$ of $R->$ $\frac{1}{3}$ of Prignal
 $\frac{1}{3}\div5\times4=\frac{4}{15}$

