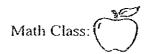
STERRICA ST

#### RAFFLES GIRLS' PRIMARY SCHOOL



<b>&gt;</b>	SEMESTRAL ASSESSMENT	1
	2008	

me :		(	)	Class: P6
	·			

Your Score		
Out of	<u> </u>	
100.95		
marks		
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		<del></del>
Highest		
Highest score		-
-		-
score		-
score Average		-

# SECTION A (20 marks)

6 May 2008

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 your answer (1, 2, 3 or 4) on the OAS provided.

MATHEMATICS Att: 2 h 15 min

- 1. Express 4 kg 4 g in grams.
  - (1) 44
  - (2) 404
  - (3) 4004
  - (4) 4400
- 2. Find the value of  $\frac{16-3k+2}{2}$  given that k=2.
  - (1) 12
  - (2) 11
  - (3) 6
  - (4) 4
- 3. B is half of A and C is  $\frac{5}{6}$  of A.

What is the ratio of A: B: C?

- (1) 1:2:1
- (2) 2:1:5
- (3) 3:2:3
- (4) 6:3:5

- 4. Joseph was facing Northwest at first.
  After turning anti-clockwise, he was facing East.
  At what angle did he turn?
  - (1) 135°
  - (2) 225°
  - (3) 270°
  - (4) 90°
- 5. The perimeter of an equilateral triangle is *e* cm. Find each side of the triangle in terms of *e*.
  - $(1) \qquad \frac{e}{3}$
  - (2)  $\frac{3}{e}$
  - (3) 3e
  - (4) 3 + e
- 6. Fill in the blank with the correct answer.
  - 1, 5, 13, \_\_\_\_\_, 61, 125
  - (1) 29
  - (2) 32
  - (3) 46
  - (4) 58

- 7.  $12\frac{32}{100} = 10 + 2 + \frac{30}{100} + \frac{2}{100}$ . What is the missing number in the box?
  - (1) 10
  - (2) 100
  - (3) 1000
  - (4) 10000
- 8. The diagrams below are three views of the same solid.







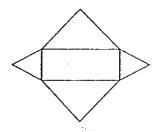
Side view

**Bottom view** 

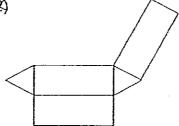
Top view

Which of the following is the net of the above solid?

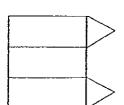
(X)



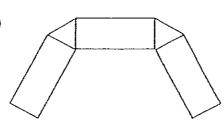
(2)



(8)



(44)



- 9. 25% of Ali's savings is the same as 20% of Bryan's savings. Express Bryan's savings as a fraction of Ali's savings.
  - (1)  $\frac{4}{5}$
  - (2)  $\frac{4}{9}$
  - (3)  $\frac{5}{4}$
  - (4)  $\frac{5}{9}$
- 10. The difference between the value of the digit 4 in 23.14 and 7.714 is \_\_\_\_\_\_
  - (1) 0.008
  - (2) 0.036
  - (3) 0.044
  - (4) 0.054
- 11. Ray had \$22.50 and Sam had \$7.50. How many per cent more money did Ray have than Sam?
  - (1)  $33\frac{1}{3}$  %
  - (2) 50 %
  - (3)  $66\frac{2}{3}$  %
  - (4) 200 %

- 12. A number when divided by 7 gives a remainder of 1 and a remainder of 2 when it is divided by 3. What is the number?
  - (1) 8
  - (2) 11
  - (3) 15
  - (4) 22
- 13. Arrange the fractions in descending order.

$$\frac{5}{6}, \frac{7}{8}, \frac{2}{5}, \frac{1}{2}$$

- $(3) \qquad \frac{1}{2}, \frac{2}{5}, \frac{5}{6}, \frac{7}{8}$
- (2)  $\frac{2}{5}, \frac{1}{2}, \frac{5}{6}, \frac{7}{8}$
- $\nearrow$   $\frac{7}{8}, \frac{5}{6}, \frac{1}{2}, \frac{2}{5}$
- (3)  $\frac{7}{8}, \frac{5}{6}, \frac{2}{5}, \frac{1}{2}$
- 14. What is the missing number in the box?

$$\frac{78}{9} = 7 + \frac{\square}{3}$$

- (1) 5
- (2) 2
- (3) 6
- (4) 15

- 15. Ali and Tom competed in a race. Ali ran at the speed of 12km/h during the first half of the journey and 4km/h during the second half of the journey. Tom ran at the average speed of 8km/h throughout the journey. Who won the race?
  - (1) Ali
  - (2) Tom
  - (3) They completed the race at the same time.
  - (4) It is impossible to tell who won the race.

Name:( )	Math Class:
Class: P6	Date:
SECTION B (30 marks)	
Question 16 to 25 carry 1 mark each. Write your ar provided. For questions which require units, give your stated. All diagrams are not drawn to scale. Answers in be expressed in the simplest form.	answers in the units fractions or ratio must
16. Arrange the numbers in ascending order.	
30 080, 30 800, 38 000, 30 008	
Ans:	
7. Fill in the blanks with a suitable answer.	
1600 x 400 = x 100	
	. •
	Ans:
18. Given that $\frac{3}{10}$ of a number is 54. What is the number?	

19. Jolyn mixed  $\frac{3}{4}$  kg of flour and  $\frac{1}{8}$  kg of butter together. She used  $\frac{1}{2}$  kg of the mixture to bake cookies. How much of the mixture was left?



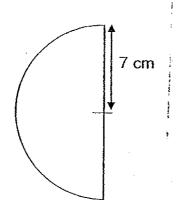
20. Express 13  $\frac{3}{8}$  as a decimal.



21. A piece of cloth 24 m 28 cm long was cut into 2 pieces. The longer piece was thrice as long as the shorter piece. What was the length of the shorter piece?



22. Find the perimeter of the semi-circle. (Take  $\pi = \frac{22}{7}$ )



Ans:\_\_\_\_cm

7

23.	In a dart game, Marvin scored y points.  Jess scored thrice of what Marvin scored.  Find their average score.		
٠		Ans:	
24.	Jasmine was running at an average speed of 5m/s for 2 minutes. Calculate the distance she ran.		
		Ans:	m
25.	Mr Wu left his office at 5.30 p.m. He took 45 minutes to reach home. At what time did he reach home? (Give your answer in the 24-hour clock)		
		Ans:	

provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form. Marks will be awarded for relevant working.				
26.	Jason spent 80% of his pocket money on food and 15% of the rem magazines. What percentage of his pocket money was left?	aining amount on		
		Ans:%		
27.	Evaluate 60 – 40 ÷ 4 × 5 + 9	_		
		Ans:		
28.	Chloe bought $\frac{5}{6}$ m of ribbon. She cut the ribbon into strips of $\frac{1}{12}$ m. She gave 2 strips of ribbon to each of her 3 daughters. What was the total length of ribbon left?			

Ans<u>i</u>m

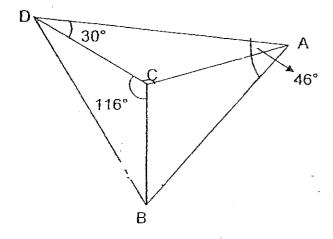
29. At a fruit stall, Mr Ang sold his apples at 3 for \$1 and his oranges at 1 for \$0.75.

Mrs Lim bought 1 dozen apples and 15 oranges. How much money did she\_spend altogether?

Ans:	\$		
7 II 1.5.	Ψ		

30. In the figure below,  $\angle$  BAD = 46°,  $\angle$  ADC = 30° and  $\angle$  BCD = 116°.

Find ∠ABC.



Ans:	٥
rano.	

31. Florence had 240 cards and Benny had 360 cards at first.

After selling an equal number of cards, the number of cards Florence had left to the number of cards Benny had left was 1:3.

How many cards did each of them sell?

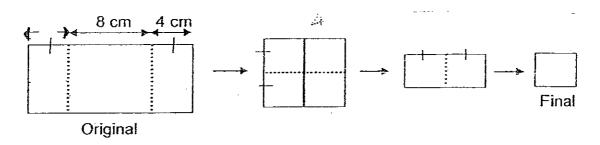
32.	During a fair, Alexis earned $\$8x$ for the key chains she sold.					
	Alexis's earning to Corinne's earning was 4 : 1.					
	If $x = 6$ , how much was the total earning?					

33. A bus left Town A for Town B at a speed of 45km/h. At the same time, a van left Town B for Town A at the speed of 55km/h. Both vehicles travelled along the same road. How far apart were they 1 hour before they met?

Ans:	km
------	----

Ans: \$ \_\_

34. A rectangular piece of paper is folded along the dotted lines to form a small rectangle as shown below. What is the ratio of the original area of the paper to the area of the final rectangle formed?



Ans:

35. Ahmad paid \$640 for a vase at a discount of 20%. Ben paid \$520 for a similar vase. What was the percentage discount given to Ben?

Ans: \_\_\_\_%

Name:	(	)	Math Class:
Class: P6			Date:

## SECTION C (50 marks)

For question 36 to 48, show your working clearly in the space provided below each question and write your answer with suitable units in the spaces provided. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form. Marks will be awarded for relevant working. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

36. Jeff saved \$5 each day and Mei saved \$*y* less than Jeff each day.

After two weeks, they were still short of \$30 to buy a fan.

How much did the fan cost?

Ans:		[3]

 In the addition sum below, each letter represents a different digit. Find the digit that each letter represents.

+ X	Y Y	Z Z	
Y	Y	Х	

Ans: X:	[1]
Y:	[1]
Z:	[1]

38. John is paid \$3 for every file he sells. He receives a bonus of \$20 for every 75 files he sells. How many files must he sell to earn \$1249?

Ans:	[3]
Ans:	[3]

39. A tank was  $\frac{4}{11}$  full after Alice poured 6 bottles of water into it. Ken used another 3 bottles and 10 glasses of water to fill the tank to its brim. All the water from the tank was then poured into glasses. How many glasses would be needed?

14

40. Figure B is made up of 4 triangles that is similar to figure A. Find the perimeter of figure B.

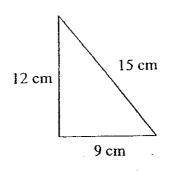


Figure A

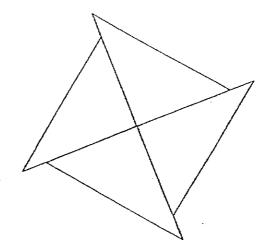


Figure B

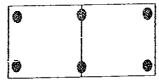
7*5* Ans:\_\_\_\_\_[3] 41. Jane takes 10 days to complete stringing a number of beads. Sharon takes 18 days to complete the same job. Jane started stringing the beads first and left the remainder to Sharon to complete. They took 14 days to complete the job together. How many days did Jane spend on the job?

42.	The ratio of the amount of water in Bottle A to the amount of water in Bottle B									
	was 2: 1. After 60 ml of water was poured into Bottle A and 150 ml was poured out of Bottle B, the ratio became 4: 1.									
	What was the amount of water in Bottle A at first?									
	···•									
			. •							
•										
		Ama:	[4]							

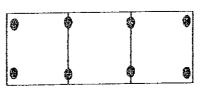
43. To pin up,1 poster on the board, 4 pins are required. To pin up 2 posters, 6 pins are needed.



1 poster



2 posters



3 posters

- a) How many pins are needed to pin up 50 posters?
- b) How many posters are pinned up if Mary uses 86 pins?

Ans: a) \_\_\_\_[2]

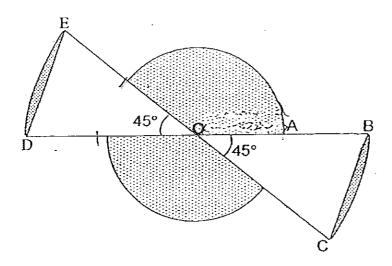
b) \_\_\_\_\_[2]

44.	The cost of 0.5 kg of lady's fingers is the same as 1.5 kg of carrots. Mrs Devi spent \$41.25 for 2 kg of lady's fingers and 10.5 kg of carrots. What was the								
	cost of 1 kg of carrots?								
,									
	·								
	$\cdot$								
	·								
	Ans:[4]								
	Ans:[4]								

45. In the figure below, O is the centre. OA is 10 cm and OB is 20 cm.

$$OD = OB$$
,  $OE = OC$ 

Area of  $\triangle$ OBC is 135 cm<sup>2</sup>. (Take  $\pi$  = 3.14)



Find the total area of the shaded parts.

46. Mr Yong bought 1 500 pens. He sold 30% of them at \$2.50 each and 80% of the remainder at a discount of 12%. was a) What is the selling price of a pen after the discount? b) Mr Yong sold the rest of the pens at cost price and earned \$1038. What was the cost price of each pen? Ans: a)

47. Lynn had 2 250 beads. She transferred  $\frac{1}{6}$  of the number of beads from Box A to Box B. Then she transferred  $\frac{3}{8}$  of the new number of beads from Box B to Box A. Later, she transferred  $\frac{2}{9}$  of the new number of beads from Box A to Box B. In the end, the ratio of the number of beads in Box A to Box B was 28 : 17. How many beads were there in Box B at first?

48. At 09 00, a van left Town P for Town Q. After some time, a car left Town Q for Town P. The two vehicles met at 11 30. The ratio of the speed of the van to the Midway speed of the car is 3:5. giverage a) What time did the car leave Town Q? b) If the distance between Town P and Town Q is 150km, calculate the speed of the van. average Ans: a) \_\_\_\_\_[3] -End of Paper-Please check your work carefully @

23

### EXAM PAPER 2008

SCHOOL : RAFFLES GIRL'S PRIMARY SCHOOL

SUBJECT : PRIMARY 6 MATHEMATICS

TERM : SA 1

							ing pair in	Taran.							
Q1	Q2	Q3	.04	<sup>2</sup> Q5	Q6	Q7	Q8		010	Q11	Q12	Q13	Q14	Q15 2	
3	3	4	2	11	1_	2	2	3	1.2	1	1	<u> </u>	1_1_		
16)3(	0008,3	0080,3	30800,	38000		17)64	100		18)1	80		19)3/8	3kg		
0)1.	3.375	1				21)6.	07m		22)3	6cm		23 <b>)</b> 2y			
24)6(	Ют;					25)18	15		26)1			2 <i>7</i> )19			
28) 1	/3.m					29)\$15	5,25		30)4	Ū		31)18			
32) <sub>3</sub> 4	0					33)100	)km		34)8	1		35)35			
15	άς=7 7χ14	=70-1	4y												
70	+(70-	14y)+ 0=14y)	30=17	0-14y											
37)X:											Shart Children				
Y:			e es												
38)79	5x3=2 5+20=	25 2.5					ā é				is.				2007
12		45–5f	24							e e e	ingen Te				
24	$\div 3=8$	383 fik							2.96						in the second
01	-3/3-	אוו כטכ					4								1
					· .			N. S. P.	W						

Page 1 to 3

Page 1

```
45)270
39)4/11→6b
                                                 360 X 3.14x10x10=235.50
  7/11 \rightarrow 3b + 10g
  2/11→3b
  5/11→10g
                                                 <u>45</u>
                                                360 X 3.14x20x20=157
  1/11→20
  11/11÷22g
                                                 157-135=22
                                                 22x2=44
                                                 44 + 235.5
                                                 =27.9.5cm2
   3+15-18
   18x4=72 cm
                                              46)a)100-12=88
                                                   2.50 X 88
                                                           100
42)2y+60
                                                   =$2.20
   2y+60=
                                                 b)1500 X 70
   660=2y
   Y = 330
   330x2=660ml
                                                    1050 X 20
43)a)1x2+2
    2x2+2
    3x2+2
                                                    1038 (1500-210)=1038
                                                    1500 X <u>30</u>
100 = 450
    50x2+2=100
    =102 pins
   b)86-2=84
     84 ÷ 2=42 poster
                                                     2.50 X 450
                                                     1050 X 80
                                                            100 = 840
44)10.5 \div 1.5 = 7
   7x0.5=3.5
   3.5+2=5.5
                                                     2.20 \times 840 = 22 \times 84 = 1848
                                                     1848+1125=2973
                                                      2973-1038=1935
  Lady fingers
   5.5→41.25
                                                      1935 \div (840 + 450) = 1935 \div 1290 = $1.50
   0.5 \rightarrow 3.75
   3.75→1.5kg
   1.25 → 0.5kg
   2.50→1kg
 Ans:$2.50
```

