

Name:

RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 2 MATHEMATICS (PAPER 1) PRIMARY 5

Form class: P5 Bande		d Math Class: P5	
Date: 29 October 2009		Duration	n: 50 min
Your Score (Out of 100	marks)	·	
Your Score (Out of 40 m	narks)		
		Banded Math Class	Level
PAPER 1	Highest Score		
(40%)	Average Score		
TOTAL (400%)	Highest		
TOTAL (100%)	Average Score		
Parent's Signat	ure		

INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. NO calculator is allowed for this paper.

SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Question 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. All diagrams are not drawn to scale.

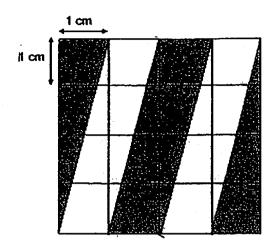
- 1. A number when rounded off to 2 decimal places is 6.73. Which one of the following is the number?
 - (1) 6.723
 - (2) 6.727
 - (3) 6.735
 - (4) 6.738

- 2. $\ln \frac{71}{9} = 7 \frac{\Box}{9}$, what is the missing number in the box?
 - (1) 1
 - (2) 2
 - (3) 8
 - (4) 18

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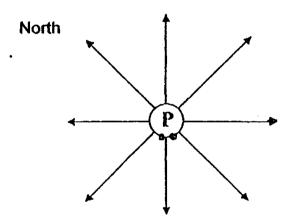
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3. Find the area of the shaded region.



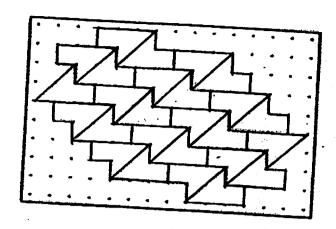
- (1) 16 cm²
- (2) 12 cm²
- (3) 8 cm²
- (4) 4 cm²

4. Jensen was standing at point P facing the South-West direction. He made a three-quarter turn to his right. Which direction was he facing?



- (1) North-West
- (2) West
- (3) South-East
- (4) East

5. The pattern in the box below shows part of a tessellation.



Which of the following is the unit shape used in the tessellation above?

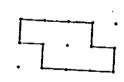




(2)



(3)



(4)



6. A water tank has 375 litres of water. How many 750-ml bottles of water can be filled with the water in the tank?

- (1) 5
- (2) 50
- (3) 500
- (4) 5000

4

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(

)

7.	What is 5% of 240?			
	(1)	1.2		
	(2)	12		

 (2)
 12

 (3)
 120

(4) 1200

8. $12 \frac{1}{50}$ expressed as a decimal is _____.

(1) 1.22

(2) 12.2

(3) 12.02

(4) 12.002

9. The ratio of the number of red beads to the number of blue beads to the number of yellow beads is 2:3:4. The total number of beads is 180. How many beads are blue?

(1) 20

(2) 40

(3) 60

(4) 80

The average age of Sharon and Ahmad is 6 years. The average age of Sharon and Mary is 8 years. The average age of Mary and Ahmad is 10 years. How old is Mary?

(1) 16

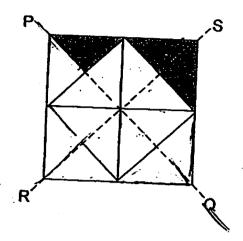
(2) 12

(3) 8

(4) 4

)

11. The figure below consists of 16 identical triangles. How many more triangles must be shaded to complete the figure which has the dotted lines PQ and RS as lines of symmetry?



- (1) 1
- (2) 2
- (3) 3
- (4) 5
- 12. What is the maximum number of 2-cm squares that can be cut out from a rectangular sheet of paper measuring 25 cm by 20 cm?
 - (1) 120
 - (2) 125
 - (3) 130
 - (4) 250
- 13. Fill in the blank.

$$\frac{8}{25} \div 10 = \frac{1}{25} \times \boxed{}$$

- (1) $\frac{4}{5}$
- (2) $\frac{3}{5}$
- (3) 8
- (4) 80

)

(

14.	The ratio of the length of Square A to the length of Square B is 4 : 9. What is the ratio of the area of Square A to the area of Square B?					
	(1)	2:3				
	(2)	4:9				
	(3)	16 : 36				
	(4)	16:81	()		
15.	One He (recei	oup of boys shared 56 apples equally among themselves. of them did not want the apples. yave the apples to the rest of the boys and each of the ved one extra apple. many boys in the group received a share of the apples at the				
	(1)	6'				
	(2)	7				
	(3)	8				
	(4)	9	. ()		

.

SECTION B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces 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

16. Arrange the following in ascending order:

0.738, $\frac{3}{5}$, 0.387, $\frac{1}{9}$

Ans: _____

Joel has 40 fifty-cent coins. Andy has 15 twenty-cent coins. How much more money does Joel have than Andy?

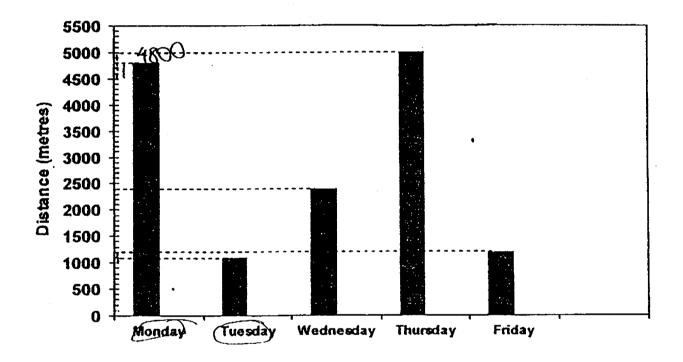
Ans: \$

18. Minah had $5\frac{1}{3}\ell$ of water. She drank $\frac{3}{4}\ell$ of the water. How much water did she have left?

19. Su Yin has $\frac{3}{4}$ m of ribbon. She cut the ribbon into 6 equal pieces. What is the length of each piece of ribbon?

Ans: ______

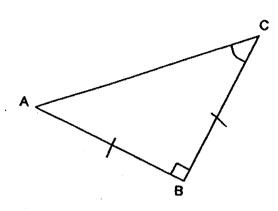
20. The graph below shows the distance jogged by Mr Wong each day



What was the total distance covered by Mr Wong for Monday and Tuesday?

Ans: ____n

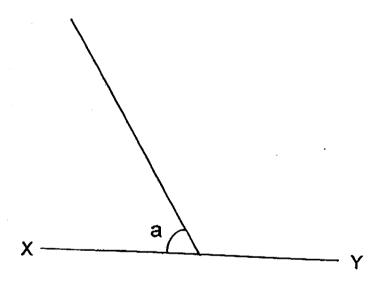
21. Triangle ABC is an right-angled isosceles triangle. Find ∠ACB.



Ans: ____

22. The figure, on the right, is drawn to scale. XY is a straight line.

Measure ∠a.

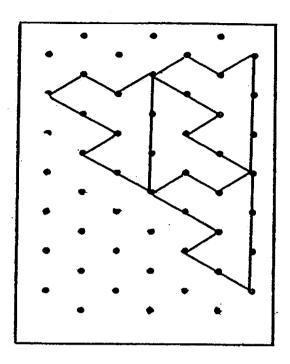


Ans: _____

23. Express 0.08 as a fraction in its simplest form.

Ans: _____

24. The pattern in the box shows a tessellation using a unit shape. Extend the tessellation by drawing two more unit shapes in the space provided in the box.



25. There are 1800 workers in a factory.

450 of them are female.

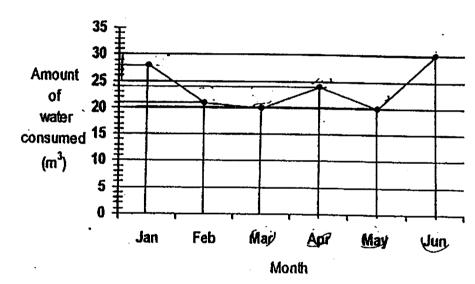
What percentage of the workers in the factory are females?

26.	Ali was 10 ml o cough n	given 0.18 f it every 4 nixture?	8 litres of hours. I	cough mix low many	ture by the days woul	e doctor. He had d he take to finis	to take h the
,							
						Ans:	
27. T	The avera	ge weekiy	/ savings	of 10 airls	ic \$5 Tha		
27. Т b	The avera	ge weekly . What is :	savings the avera	of 10 girls ge weekly	is \$5. The savings of	average weekly the 15 children?	
27. Т b	The avera	ge weekly . What is :	/ savings the avera	of 10 girls ge weekly	is \$5. The savings of		savings of 5
3. Th	ne volume	of a cubo	oid is twice	e the volum	- Carrings Of	average weekly the 15 children?	savings of 5
3. Th	ne volume ne length d	of a cubo	oid is twice	e the volum	- Carrings Of	average weekly the 15 children? Ans: \$	savings of 5

29. Line AC is a side of a right-angled isosceles triangle. Complete the triangle ABC with \angle ACB = 90° .

A C

30. The line graph below shows the amount of water consumed by Mr Lee's family from January to June.



The amount of water used is charged at a rate of \$3 per m³. What was the amount paid by Mr Lee's family for the utility bills from March to June?

Ans: \$

Please check your work carefully

Setters: Lee S.K., Wai S. H., Teo W. T.



RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 2 MATHEMATICS (PAPER 2) PRIMARY 5

Name.	<u></u>	()		
Form class: P5	Banded M	anded Math Class: P5		
Date: 29 October 2009		Duration	n: 1 h 40 min	
Your Score (Out of 60 marks)				
,		Banded Math Class	Level	
Highest Score				
Average Score				
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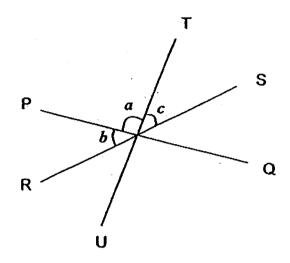
INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
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- 3. Answer ALL questions and show all working clearly.
- 4. The use of calculator is allowed for this paper.

Questions 1 to 5 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)

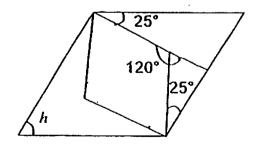
1. In the figure below, PQ, RS and TU are all straight lines.

Given that $\angle a = 75^{\circ}$ and $\angle b = \angle c$. Find $\angle c$.



Ans)	[2]
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2. The figure below is made up of 2 parallelograms. Find $\angle h$.



Ans:	[2

3. Two sides of a parallelogram are drawn on the square grids below. Complete the parallelogram by drawing the other two sides of the parallelogram. [2]

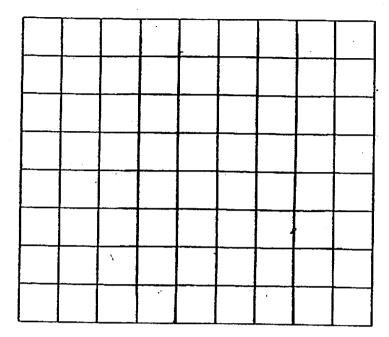


Table A below consists of numbers from 1 to 280.
 Helen is given a plastic frame with 4 squares shaded that can cover exactly 9 squares of Table A.

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33		
•••	• • •	***	444		446	
	9 4 4		270	271	272	273
274	275	276	277	278	279	280

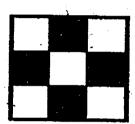


Table A

Plastic frame

Helen puts the frame on some 9 squares on Table A.

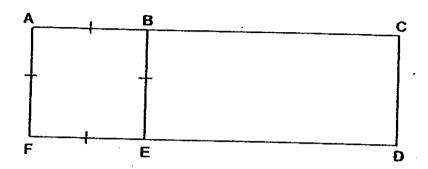
The sum of the 5 numbers that can be seen in the frame is 995.

What is the greatest number that can be seen in the frame?

Ans:	[2]
	 ,-,

5. The figure ACDF, with an area of 10/2 cm², is made up of square ABEF and rectangle BCDE.

The area of square ABEF is 36 cm². What is the length of BC?



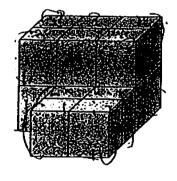
Ans:_	 cm	[2

For questions 6 to 18, show your working clearly in the spanish	ace provided for each
question and write your answers in the spaces provided.	
The number of marks available is shown in the brackets [] at the end of each
c estion or part-question.	(50 marks)

6. A box weighs 95.75 kg when it is filled with Solid A.
The same box weighs 33.5 kg when it is filled with Solid B.
Solid A is six times as heavy as Solid B, what is the mass of the empty box?

Ans:	 [3	ij

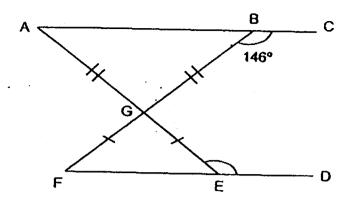
7. The figure below was made up of similar cubes glued together.



- (a) How many cubes were used to made the figure above?
- (b) Meiling painted all the faces of the figure in blue. How many cubes had 3 of its faces painted blue?

Ans: a)	1
b)	[2

8. In the diagram below, AGE, BGF, ABC and FED are straight lines. Find ∠GED.



Ans:	[3]
------	-----

9. Mr Tan's monthly salary is twice Mr Lee's. His monthly savings is 6 times Mr Lee's. Given that both of them spend \$1000 monthly, how much money does Mr Tan earn?

Ans: _____[4]

10.	Out of the 40 000 people at a concert, 30% of them were women, 10% of them were children and the rest were men. Some women left the concert with half the number of children before it ended. As a result, the percentage of men increased to 75% of the number of people at the concert in the end. How many women were at the concert in the end?
	·
	•
	, , , , , , , , , , , , , , , , , , ,

[4]

Ans:

11.	There are three neon lights in a shop. The red light flashes every 6 minutes, the purple light flashes every 8 minutes and the yellow light flashes every 12 minutes. All three neon lights flash together when you walk into the shop. Including the flashes you see when you first step into the shop, how many times will you see at least 2 neon lights flash together if you are in the shop for 60 minutes?

Ans:____[3]

2. Mrs Chan had some money. She spent half of the money and \$100 more on her shoes. She then spent half of the remainder and \$100 more to buy a watch. She again spent half of the money that was left on a blouse and had \$250 left. How much money did she have at first?		
	•	
	,	-
· · · · · · · · · · · · · · · · · · ·		٠
•		
	Ans:	[4]

13. Priya gave \$800 to her mother.

She then spent $\frac{5}{8}$ of her remaining money to buy a laptop.

If she still had $\frac{3}{10}$ of her money left, how much money did she have at first?

Ans: _____[4]

14. The series of figures below are made up of dots and lines.

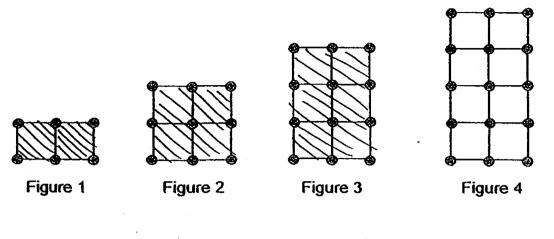


Figure	1	2	3	4
Sum of lines and dots	13	21	29	37

- a) Find the sum of lines and dots in Figure 8.
- b) Find the figure which has a sum of 205 lines and dots.

Ans: (a) _____[1]

(b) _____12]

				•	
15.	A bus driver charge only charge \$75.50 In September, the I trips were late. How	bus driver eame	d \$2359 50 3	For avon, 20 to	
			•		
				•	
	· ·				
		·			
	•				

Ans: _____[5]

16.	became '	age height of a g new boys each o 1.65 m. ny boys were in t		roup, the avera	ige height
				-	
	•				
		•			
		1			

- 17. In a school, the ratio of the number of pupils who wear glasses to the number of pupils who do not wear glasses is 11 : 5.
 - $\frac{2}{3}$ of the boys and $\frac{7}{10}$ of the girls wear glasses.

What is the ratio of the number of boys to the number of girls?

18. Mr Muhamad has 3 cubical fish tanks of different size.
The length of Tank A is twice the length of Tank B and the length of Tank B is twice the length of Tank C.
Mr Muhamad filled 20% of Tank A, 35% of Tank B and 40% of Tank C with water at first. He then decided to pour all the water from Tank B and Tank C into Tank A. What percentage of Tank A is filled with water?

Ans: ____[5]

-End of Paper-Please check your work carefully ⁽³⁾

Setters: Lee S.K., Wai S. H., Teo W. T.

ANSWER SHEET

EXAM PAPER 2009

SCHOOL: RAFFLES GIRLS' PRIMARY SUBJECT: PRIMARY 5 MATHEMATICS

TERM : SA2

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q1 2 3 3 2 3 2 3 2 4 1 1 4 2	5
---	---

16)1/9, 0.387, 3/5, 0.738

17)\$17 18)47/12

19)1/8m

20)5900m

21)45°

22)60° 23)2/25

24)

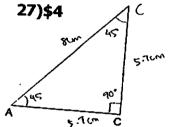
25)25%

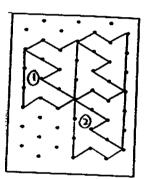
26)25/6 days 27)\$4

28)512cm₃

29)

30)\$282

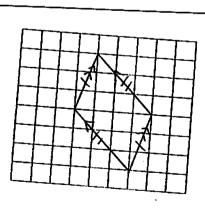




Paper 2

1)180° -75° =105° 105° ÷2≈52:5° ∠C is 52.5° ·

3)



2)180° -120° =60° 25° +60° =85° 85° x2=170° 180° -85° =95° 180° -120° =60° 180° -60° -25° =95° 180° -95° =85° 180° -85° -25° =70° ∠ h is 70°

4)207	5)11cm
6)Box +A=95.75kg Box +B=33.5kg 95.75kg-33.5kg=62.25kg 62.25kg÷5=12.45kg 33.5kg-12.45kg=21.05kg The box weighs 21.05kg	7)a)16 cubes b)9 cubes
8)180° -146° =34° 180° -34° -34° =112° 180° -112° =68° 68° ÷2=34° 180° -34° =146° ∠GED is 146°	9)\$1000→4 units \$1000÷4=\$250 \$250x6=\$1500 \$1500+\$1000=\$2500 Mr Tan earned \$2500
10)2400→75% 75%>3 quarter 2400÷3=800 1 quarter→800 20-4=16 16 units left Women left→3 units 3/20x40000=6000 There are 6000 left.	11)6 times
12)\$250x2=\$500 \$500+\$100=\$600 \$600x2=\$1200 \$1200+\$100=\$1300 \$1300x2=\$2600 She has \$2600 left.	13)\$800→2 unit 1 unit→\$800÷2=\$400 \$400x8=\$3200 \$3200+\$800=\$4000 She has \$4000 at first.
14)a)69 b)25	15)20-6=14 14x\$80=\$1120 \$75.50x6=\$453 \$1120+\$450=\$1573 20 trips→14 tine 6 late 2359.50÷1573=1.5 1.5x14=21 trips.

Page 2

16)1.70m→170m 170cmx2=340cm 1.65m-1.64m=1cm 1.70m-1.65m=5cm 5cm+5cm=10cm 10+2=12 There are 12 boys.	17)2B+7G=11 units 1B+3G→5 units 2B+6g→10 units 1 G→1 units 10G→10 units 1B→2 unit B→3x2=6 6:10→3:5 The ratio is 3: 5
18)25%	